

## SEQUENCE LISTING A

&lt;110&gt; CANON KABUSHIKI KAISHA

&lt;120&gt; Probe set and method for identifying HLA allele

&lt;130&gt; g10003828A

&lt;150&gt; JP2003-430553

&lt;151&gt; 2003-12-25

&lt;160&gt; 637

&lt;170&gt; PatentIn version 3.2

&lt;210&gt; 1

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1

```

atggcgtca tggcgcccc aacctcctc ctgtactct cgggggcct ggccctgacc 60
cagacctggg cgggctcca ctccatgagg tatttctca catcctgtc ccggccggc 120
cgcggggagc ccgcttcat cgccgtggg tacgtggac acacgcagt cgtgcggtc 180
gacagcgacg ccgcagcca gaagatggag ccgcgggcg cgtggataga gcaggagggg 240
ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac tgaccgagcg 300
aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360
ataatgtatg gctgcgacgt ggggcgggac gggcgttcc tccgcgggta ccggcaggac 420
gcctacgacg gcaaggatta catgcacct aacgaggacc tgcgtcttg gacgcggcg 480
gacatggcag ctcagatcac caagcgcaag tgggaggcgg tccatgcggc ggagcagcgg 540
agagtctacc tggagggcgg gtgcgtggac gggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa cttccagaa gtgggcggct gtggtgtgc cttctggaga ggagcagaga 840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

```

&lt;210&gt; 2

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2

```

gtccccact catgaggtat ttcttcatat cgtgtcccc gcccgccgc ggggagcccc 60
gttctatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagaa gatggagccg cgggcgcgt ggatagagca ggaggggccc gagtattggg 180
accaggagac acggaatatg aaggccact cacagactga ccgagcgaac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300
gcgacgtggg gccggacggg cgttctctcc ggggtaccg gcaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agattaccaa gcgcaagtgg gaggcggtcc atgcggcgga gcagcggaga gtctacctgg 480
agggccggtg cgtggacggg ctccgagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 3

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3

```

atggccgtca tggcgccccg aacctctctc ctgtactctt cgggggccct ggccctgacc 60
cagacctggg cgggctccca ctccatgagg tattttctca catccgtgtc cggcccggc 120
agtggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaagatggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac tgaccgagcg 300
aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360
ataatgtatg gctgcgacgt ggggcccggac gggcgcttcc tccgcgggta ccggcaggac 420
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctacatcac caagcgcaag tgggaggcgg tccatgcggc ggagcagcgg 540
agagtctacc tggagggcgg gtgcgtggac gggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgacagga ccccccaag acacatatga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa cttccagaa gtggcggtg gtgtgtgtgc cttctggaga ggagcagaga 840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

```

<210> 4  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 4
gctccactc catgaggtat ttcttcacat cgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagaa gatggagcgg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accaggagac acggaatatg aaggcccact cacagactga ccgagcgaac ctggggacc 240
tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agatcaccaa gcgaagtgg gaggcggtcc atgcggcgga gcagcggaga gtctacctg 480
agggccggtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

<210> 5  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 5
gctccactc catgaggtat ttcttcacat cgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagaa gatggagcgg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accaggagac acggaatatg aaggcccact cacagactga ccgagcgaac ctggggacc 240
tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300
gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agatcaccaa gcgaagtgg gaggcggtcc atgcggcgga gcagttgaga gcctacctg 480
agggccggtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

<210> 6  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 6
gctccactc catgaggtat ttcttcacat cgtgtcccg gcccgccgc ggggagcccc 60

```



```

gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagaa gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180
accaggagac acggaatgtg aaggccact cacagactga ccgagagaac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300
gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcttgac gcggcgagac atggcagctc 420
agatcaccaa gcgcaagtgg gaggcggtcc atgcggcgga gcagcggaga gtctacctgg 480
agggccggtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

<210> 7  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 7
gctccactc catgaggtat ttcttcaat cgtgtcccg gccggccgc ggggagcccc 60
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagaa gatggagccg cgggcgccgt ggatagagca ggaggggccc gattattggg 180
accaggagac acggaatatg aaggccact cacagactga ccgagcgaac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300
gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcttgac gcggcgagac atggcagctc 420
agatcaccaa gcgcaagtgg gaggcggtcc atgcggcgga gcagcggaga gtctacctgg 480
agggctggtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

<210> 8  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

```

<400> 8
atggccgtca tggcgcccc aacctctc ctgtactct cgggggcctt ggcctgacc 60
cagacctggg cgggctccca ctccatgagg tatttctca catcgtgtc ccggcccgc 120
cgcggggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt agtgcggtc 180
gacagcgacg ccgcgagcca gaagatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccgagtgatt gggaccagga gacacggaat atgaaggccc actcacagac tgaccgagcg 300
aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360
ataatgtatg gctgcgacgt ggggcgggac gggcgcttc tccgcgggta ccggcaggac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctcatatcac caagcgcaag tgggaggcgg tccatgcggc ggagcagcgg 540
agagtctacc tggagggcgg gtgcgtggac gggctccgca gatactgga gaacgggaag 600
gagacgctgc agcgacgga ccccccaag acatatatga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgac 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa ccttcagaa gtggcggtg gtggtgtgc cttctggaga ggagcagaga 840
tacactgcc atgtgcagca tgagggtctg ccaagcccc tcacctgag atgggag 897

```

<210> 9  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

```

<400> 9
atggccgtca tggcgcccc aacctctc ctgtactct cgggggctt ggcctgacc 60
cagacctggg cgggctctca ctccatgagg tatttctca catcgtgtc ccggcccgc 120

```

```

cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360
aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccagtac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg gaccgcggcg 480
gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgacgga cgccccaaa acgcatatga ctcaccacgc tgtctctgac 660
catgaagcca cctgaggtg ctggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa cctccagaa gtgggcggct gtggtggtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag atggggag 897

```

<210> 10  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 10gctcccactc catgaggtat ttcttcacat ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggttac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgcctg gatatagaca ggagggtccg gagtattggg 180
acggggagac acggaagtg aaagccact cacagactca ccagtgtagc ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat gcacctgaaa gaggacctgc gctcttgac cgcggcggac atggcagtc 420
agaccaccaa gcacaagtgg gaggggccc atgtggcgga gcagttgaga gctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

<210> 11  
 <211> 875  
 <212> DNA  
 <213> Homo sapiens

```

<400> 11
aaccctcgtc ctgtactct cgggggctct ggccctgacc cagacctggg cgggctctca 60
ctccatgagg tatttcttca catcctgttc ccggcccgc cggggggagc cccgcttcat 120
cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc gacagcgacg ccgcgagcca 180
gaggatggag ccgcgggcgc cgtggataga gcaggagggt ccggagtatt gggacgggga 240
gacacggaaa gtgaaggccc actcacagac tcacgagtg gacctgggga cctgcgcgg 300
ctactacaac cagagcgagg ccggttctca caccgtccag aggatgtatg gctgcgacgt 360
ggggtcggac tggcgcttcc tccgcgggta ccaccagtac gcctacgacg gcaaggatta 420
catcgccctg aaagaggacc tgcgctcttg gaccgcggcg gacatggcag ctcagaccac 480
caagcacaag tgggaggcgg cccatgtggc ggagcagttg agagcctacc tggagggcac 540
gtgcgtggag tggctccgca gatacctgga gaacgggaag gagacgctgc agcgacgga 600
cgccccaaa acgcatatga ctcaccacgc tgtctctgac catgaagcca cctgaggtg 660
ctgggcctg agcttctacc ctgcggagat cacactgacc tggcagcggg atggggagga 720
ccagaccag gacacggagc tcgtggagac caggcctgca ggggatggaa cctccagaa 780
gtgggcggct gtggtggtgc cttctggaca ggagcagaga tacacctgcc atgtgcagca 840
tgagggtttg cccaagcccc tcacctgag atggg 875

```

<210> 12  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 12

```

gctctcactc catgaggtat ttcttcacat cegtgtcccg gcccggccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180
acggggagac acggaagtg aaggccact cacagactca ccagtggtgac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcagcggac atggcagctc 420
agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 13

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 13

```

gctctcactc catgaggtat ttcttcacat cegtgtcccg gcccggccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180
acggggagac acggaagtg aaggccact cacagactca ccagtggtgac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccctgaaa gaagacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacggacgc ccccaaacg catatgactc accacgtgt ctctgacct gaagccacc 600
tgaggtgctg ggccctgagc ttctacctg cggagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720
tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac acctgccatg 780
tgcagcatga gggtttgcgc aagccctca cctgagatg gg 822

```

&lt;210&gt; 14

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 14

```

gctctcactc catgaggtat ttcttcacat cegtgtcccg gcccggccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180
acggggagac acggaagtg aaggccact cacagactca ccagtggtgac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgattctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacggacgc ccccaaacg catatgactc accacgtgt ctctgacct gaagccacc 600
tgaggtgctg ggccctgagc ttctacctg cggagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720
tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac acctgccatg 780
tgcagcatga gggtttgcgc aagccctca cctgagatg gg 822

```

&lt;210&gt; 15

&lt;211&gt; 822

&lt;212&gt; DNA

<213> Homo sapiens

<400> 15

```

gctctcactc catgaggtat ttcttcacat cegtgtcccg gcccggccgt ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acgggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat gcacctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420
agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacggacgc ccccaaaacg catatgactc accacgtgt ctctgacct gaagccaccc 600
tgaggtgctg ggcctgagc ttctacctg cggagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720
tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac acctgccatg 780
tgcagcatga gggtttgccc aagccctca cctgagatg gg 822

```

<210> 16

<211> 822

<212> DNA

<213> Homo sapiens

<400> 16

```

gctctcactc catgaggtat ttcttcacat cegtgtcccg gcccggccgc ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acgggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat gcacctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420
agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacggacgc ccccaaaacg catatgactc accacgtgt ctctgacct gaagccaccc 600
tgaggtgctg ggcctgagc ttctacctg cggagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acagagctcg tggagaccag gcctgcaggg gatggaacct 720
tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac acctgccatg 780
tgcagcatga gggtttgccc aagccctca cctgagatg gg 822

```

<210> 17

<211> 822

<212> DNA

<213> Homo sapiens

<400> 17

```

gctctcactc catgaggtat ttcttcacat cegtgtcccg gcccggccgc ggggagcccc 60
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acgggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat gcacctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420
agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacggacgc ccccaaaacg catatgactc accacgtgt ctctgacct gaagccaccc 600
tgaggtgctg ggcctgagc ttctacctg cggagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720
tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac acctgccatg 780

```

tgcagcatga gggtttcccc aagccccca ccctgagatg gg 822  
 <210> 18  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 18  
 gctctcactc catgaggtat ttcttcacat cegtgtcccc gccgggccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca cgcagttcgt ggggttcgac agcgacgccg 120  
 cgagccggag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 acggggagac acggaaagtg aagggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttcctgc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacggacgc cccaaaacg catatgactc accacgtgt ctctgacct gaagccacc 600  
 tgaggtgtg ggcctgagc ttctacctg cggagatcac actgacctg cagcgggatg 660  
 gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720  
 tccagaagtg ggcggctgtg gtggtgctt ctggacagga gcagagatac acctgccatg 780  
 tgcagcatga gggtttcccc aagccccca ccctgagatg gg 822

<210> 19  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 19  
 atggccgtca tggcgcccc aacctcgtc ctgtactct cgggggctct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg tattttctca catccgtgc cggccccgc 120  
 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 aggatgtatg gctgcgacgt ggggtcggac tggcgttcc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catgcacctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagacc caagcacaag tgggagacgg ccatgaggc ggagcagtgg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga gcccccaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtgggcggct gtggtgtgac cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 20  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 20atggccgtca tggcgcccc aacctcgtc ctgtactct cgggggctct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg tattttctca catccgtgc cggccccgc 120  
 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 atgatgtatg gctgcgacgt ggggtcggac tggcgttcc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catgcacctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagacc caagcacaag tgggagggcg ccatgtggc ggagcagtgg 540

agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacagga cgcgccaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 21  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 21  
 atggccgtca tggcgccccg aacctcgtc ctgctactct cgggggctct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcgggggagc ccgcttcat cgcagtgggc tacgtggagc acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagccg gaggatggag ccgcggggcg cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccctccag 360  
 aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tgcgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacagga cgcgccaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 22  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 22  
 atggccgtca tggcgccccg aacctcgtc ctgctactct cgggggctct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcgggggagc ccgcttcat cgcagtgggc tacgtggagc acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctcagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacagga cgcgccaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 23  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 23

```

atggcctgca tggcgccccg aacctcgtc ctgtactct cgggggctct ggccctgacc 60
cagacctggg cgggctctca ctccatgagg tattttctca catcctgtc cggccccgc 120
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300
gacctgggga cctgcgcgg ctactacaac cagacgagg ccggttctca caccgtccag 360
aggatgtgtg gctgcgacgt ggggtcggac tggcgcttc tccgcgggta ccaccagtac 420
gcctacgacg gcaaggatta catgccttg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctacagacc caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacttga gaacgggaag 600
gagacgtgc agcgacgga ccccccaaa acgcatatga ctcaccacgc tgtctctgac 660
catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cactctgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa cctccagaa gtggcggtg gtgtgtgtg cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag atgggag 897

```

<210> 24  
 <211> 550  
 <212> DNA  
 <213> Homo sapiens

```

<400> 24
tggcggggct ctactccat gaggtatttc tacacctcg tgtcccgcc cggccgcggg 60
gagccccgt tcatcgagt gggctacgt gacgacacgc agttcgtcg gttcgacagc 120
gacgcgcga gccggaggat ggagccgcgg gcgcgtgga tagacagga gggtcggag 180
tattgggacg gggagacag gaatgtgaag gccactcac agactaccg agtggacctg 240
gggacctgc gcggtacta caaccagagc gaggcgggtt ctcaccct ccagaggatg 300
tatggtgcg acgtggggtc ggactggcg ttcctgcgc ggtaccacca gtacgcctac 360
gacggcaagg attacatgc cctgaaagag gacctgcgt cttggaccgc ggcggacatg 420
gcagctcaga ccaccaagca caagtgggag gcggcccatg tggcgagca gtggagagcc 480
tacctggagg gcacgtgct ggagtggctc gcagatacc tggagaacgg gaaggagacg 540
ctgcagcgca 550

```

<210> 25  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

```

<400> 25
atggcctgca tggcgccccg aacctcgtc ctgtactct cgggggctct ggccctgacc 60
cagacctggg cgggctctca ctccatgagg tattttctca catcctgtc cggccccgc 120
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300
gacctgggga cctgcgcgg ctactacaac cagacgagg ccggttctca caccgtccag 360
aggatgtatg gctgcgacgt ggggtcggac tggcgcttc tccgcgggta ccaccagtac 420
gcctacgacg gcaaggatta catgccttg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctacagacc caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacttga gaacgggaag 600
gagacgtgc agcgacgga ccccccaaa acgcatatga ctcaccacgc tgtctctgac 660
catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cactctgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgaa 780
ggggatggaa cctccagaa gtggcggtg gtgtgtgtg cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag atgggag 897

```

<210> 26  
 <211> 897  
 <212> DNA

<213> Homo sapiens

<400> 26

```
atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggctct ggccctgacc 60
cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120
cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360
aggatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcggtta ccaccgtac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctacagacc caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgacgga cgccccaaa acgcatatga ctaccacgc tgtctctgac 660
catgaagcca cctgaggtg ctgggcctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa cttccagaa gtggcggtg gtgtgtgtg cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897
```

<210> 27

<211> 897

<212> DNA

<213> Homo sapiens

<400> 27

```
atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggctct ggccctgacc 60
cagacctggg cgggctctca ctccatgagg tatttctca catccgtgtc ccggcccggc 120
cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagat tgaccgagt 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360
aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcggtta ccaccgtac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctacagacc caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgacgga cgccccaaa acgcatatga ctaccacgc tgtctctgac 660
catgaagcca cctgaggtg ctgggcctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa cttccagaa gtggcggtg gtgtgtgtg cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897
```

<210> 28

<211> 897

<212> DNA

<213> Homo sapiens

<400> 28

```
atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggctct ggccctgacc 60
cagacctggg cgggctctca ctccatgagg tatttctca catccgtgtc ccggcccggc 120
cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360
aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcggtta ccaccgtac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctacagacc caagcacaag tgggaggcgg ccatgtggc ggagcagcag 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgacgga cgccccaaa acgcatatga ctaccacgc tgtctctgac 660
```



catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcggtg gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 29  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 29  
 atggccgtca tggcgccccg aacctcgtc ctgctactct cgggggctct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300  
 gacctgggga cctgcgcggt ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 aggatgtatg gctgcgacgt ggggtcggac tggcgcttc tccgcggtta ccaccagtac 420  
 gcctacgacg gcaaggatta catgccttg aaagaggacc tgcgtcttg gaccgcgcg 480  
 gacatggcag ctgagaccac caagcacaag tgggaggcgg ccatgaggc ggagcagcag 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgccaaa acgcatatga ctcaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcggtg gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 30  
 <211> 892  
 <212> DNA  
 <213> Homo sapiens

<400> 30cgtcatggcg ccccgaaacc tcgtctgtct actctcgggg gctctggccc tgaccagac 60  
 ctggcggggc tctactcca tgaggtatct ctacacctcc gtgtcccgcg ccggcccgcg 120  
 ggagccccgc ttcactcgag tgggctacgt ggacgacacg cagttcgtgc ggttcgacag 180  
 cgacgcgcg agccggagga tggagccgcg ggcgccgtgg atagagcagg agggctccga 240  
 gtattgggac ggggagacac ggaaagtga ggccactca cagactcacc gactggacct 300  
 ggggacctg cgcggctact acaaccagag cgaggccggt tctcacacc tccagaggat 360  
 gtatggctgc gactgggggt cggactggcg ctctctgcgc ggggtaccac agtacgccta 420  
 cgacggcaag gattacatcg cctgaaaga ggacctgcgc tcttgaccg ccgcgggacat 480  
 ggacgctcag accaccaagc acaagtggga ggcgcccat gtggcgagc agttgagagc 540  
 ctacctggag ggcacgtgcg tggagtggct ccgagatac ctggagaacg ggaaggagac 600  
 gctgcagcgc acggacgccc ccaaaacgca tatgactcac cacgtgtct ctgacctga 660  
 agccacctg aggtgctggg cctgagctt ctacctgcg gagatcacac tgacctggca 720  
 gcgggatggg gaggaccaga ccaggacac ggagctcgtg gagaccaggc ctgcagggga 780  
 tggaaacctc cagaagtggg cggtgtggt ggtgccttct ggacaggagc agagatacac 840  
 ctgccatgtg cagcatgagg gtttgcccaa gccctcacc ctgagatggg ag 892

<210> 31  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 31  
 atggccgtca tggcgccccg aacctcgtc ctgctactct cgggggctct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180

gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc aggcacgga cgccccaaa acgcatatga ctcaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggct gtggtgtgac cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag atggggag 897

<210> 32  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 32  
 atggccgtca tggctccccg aacctcgtc ctgtactct cgggggctct ggccctgacc 60  
 cagacctggg cggtctctca ctccatgagg tatttcttca catccgtgtc ccggcccggc 120  
 cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccctccag 360  
 atgatgtttg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540  
 agagcctacc tggagggcag gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc aggcacgga cgccccaaa acgcatatga ctcaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggct gtggtgtgac cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcaccctgag atggggag 897

<210> 33  
 <211> 781  
 <212> DNA  
 <213> Homo sapiens

<400> 33  
 atggccgtca tggcgcggcg aacctcgtc ctgtactct cgggggctct ggccctgacc 60  
 cagacctggg cggtctctca ctccatgagg tatttcttca catccgtgtc ccggcccggc 120  
 cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccctccag 360  
 atgatgtttg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540  
 agagcctacc tggagggcag gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc aggcacgga cgccccaaa acgcatatga ctcaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 g 781

<210> 34

<211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 34  
 atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggctct ggcctgacc 60  
 cagacctggg cgggctctca ctccatgagg tattttctca catccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 aggatgtgtg gctgcgacgt ggggtcggac tggcgttcc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catgcacctg aaagaggacc tgcgctcttg gaccgcggcg 480  
 gacaaggcag ctacgaccac caagcacaag tgggaggcgg cccatgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctcgcga gatacctgga gaacgggaag 600  
 gagacgctgc agcgacgga cgcacccaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca cctgagggtg ctggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggct gtggtgtgac ctctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 35  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 35  
 gctctcactc catgaggtat ttcttcacat ccgtgtcccc gcccgccgc ggggagcccc 60  
 gttctatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc cgggtacca ccagtaagcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcaccaa gcgaagtgg gaggcgcccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 36  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 36  
 gctctcactc catgaggtat ttcttcacat ccgtgtcccc gcccgccgc ggggagcccc 60  
 gttctatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 acggggagac acggaatgtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc cgggtacca ccagtaagcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agaccaccaa gcacaagtgg gaggcgcccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 37  
 <211> 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 37

```

gctctcactc catgaggtat ttcttcacat cegtgtcccg gccggccgc ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcccgt ggatagagca ggagggtccg gattattggg 180
acggggagac acggaacgtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgttctctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 38

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 38

```

atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggtctt ggccctgacc 60
cagacctggg cgggctctca ctccatgagg tatttctaca ctccgtgtc ccggcccggc 120
cgcggggagc cccgttcat cgcagtgggc tacgtggaca acacgcagtt cgtgcggttc 180
gacagcgacg ccgcagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360
aggatgtatg gctgcgacgt ggggtcggac tggcgttcc tccgcgggta ccaccgtac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctacagacc caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacttga gaacgggaag 600
gagacgtgc agcgacgga cgcacccaaa acgcatatga ctaccacgc tgtctctgac 660
catgaagcca cctgaggtg ctggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa cctccagaa gtggcggtg gtgtgtgtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg ccaagcccc tcacctgag atggggag 897

```

&lt;210&gt; 39

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 39

```

atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggtctt ggccctgacc 60
cagacctggg cgggctctca ctccatgagg tatttcttca catcgtgtc ccggcccggc 120
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagtg 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360
aggatgtatg gctgcgacgt ggggtcggac tggcgttcc tccgcgggta ccaccgtac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctacagacc caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacttga gaacgggaag 600
gagacgtgc agcgacgga cgcacccaaa acgcatatga ctaccacgc tgtctctgac 660
catgaagcca cctgaggtg ctggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa cctccagaa gtggcggtg gtgtgtgtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg ccaagcccc tcacctgag atggggag 897

```

<210> 40  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 40gtctcactc catgaggtat ttcttcacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggacce 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 41  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 41  
 gtctcactc catgaggtat ttcttcacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggacce 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gacacggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 42  
 <211> 891  
 <212> DNA  
 <213> Homo sapiens

<400> 42  
 gtcattggcgc cccgaacct ctctctgcta ctctggggg ctctggccct gaccagacc 60  
 tgggcgggct ctactccat gaggtatttc ttacatccg tgtccggcc cggccgccc 120  
 gagccccgt tcatgcagt gggctacgtg gacgacacgc agttcgtgcg gttcgacagc 180  
 gacgccgca gccagaggat ggagccgcgg gcgcgtgga tagagcagga ggtccggag 240  
 tattgggacg gggagacacg gaaagtgaag gccactcac agactaccg agtggacctg 300  
 gggacctgc gcgctacta caaccagagc gaggccggtt ctacacacct ccagaggatg 360  
 tatggctgcg acgtggggtc ggactggcgc ttctccgcg ggtaccacca gtacgcctac 420  
 gacggcaagg attacatgc cctgaaagag gacctgcgt cttggaccgc ggcgacatg 480  
 gcagctcaga ccaccaagca caagtgggag gcggcccatg aggcggagca gttgagacc 540  
 tacctggagg gcacgtgctt ggagtggctc cgcagatacc tggagaacgg gaaggagacg 600  
 ctgcagcgca cggacgccc caaaacgcat atgactcacc acgtgtctc tgacctgaa 660  
 gccacctga ggtgctgggc cctgagctt tacctgcgg agatcacact gacctggcag 720  
 cgggatgggg aggaccagac ccaggacacg gagctcgtgg agaccaggcc tgcaggggat 780  
 ggaaccttc agaagtgggc ggctgtggtg gtgccttctg gacaggagca gagataacc 840  
 tgccatgtgc agcatgaggg ttgcccag ccctcacc tgagatggga g 891

<210> 43  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 43  
 gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
 acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat gcacctgaaa gaggacctgc gctcttggac cgcgccggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 44  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 44  
 gctctcactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagagtccg gattattggg 180  
 acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat gcacctgaaa gaggacctgc gctcttggac cgcgccggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 45  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 45  
 gctctcactc catgaggtat ttcttcacat ccgtgtcccg gcccggccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
 acggggagac acggcaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat gcacctgaaa gaggacctgc gctcttggac cgcgccggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 46  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 46

```

atggccgtca tggcgccccg aaccctcgte ctgctactct cgggggctct ggccctgacc 60
cagacctggg cgggctctca gtccatgagg tattttctca catccgtgtc ccggcccggc 120
cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360
aggatgtatg gctgcgacgt ggggtcggac tggcgcttc tccgcgggta ccaccgtac 420
gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgctctt gaccgcggcg 480
gacatggcag ctacagacc caagcacaag tgggaggcgg ccatgttggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacttga gaacgggaag 600
gagacgtgc agcgacgga ccccccaaa acgcatatga ctcaccacgc tgtctctgac 660
catgaagcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
gggatggaa ccttcagaa gtgggcggct gtggtgtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

```

<210> 47  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 47
gtctcacte catgaggtat ttcttcatat cgtgtcccc gccggccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacccg 120
ggagccagag gatggagccg cgggcgcctt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaagtgt aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat gccttgaaa gaggacctgc gctctggac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

<210> 48  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

```

<400> 48
atggccgtca tggcgccccg aaccctcgte ctgctactct cgggggctct ggccctgacc 60
cagacctggg cgggctctca ctccatgagg tattttctca catccgtgtc ccggcccggc 120
cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240
ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360
aggatgtctg gctgcgacgt ggggtcggac tggcgcttc tccgcgggta ccaccgtac 420
gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgctctt gaccgcggcg 480
gacatggcag ctacagacc caagcacaag tgggaggcgg ccatgttggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacttga gaacgggaag 600
gagacgtgc agcgacgga ccccccaaa acgcatatga ctcaccacgc tgtctctgac 660
catgaagcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
gggatggaa ccttcagaa gtgggcggct gtggtgtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

```

<210> 49  
 <211> 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 49

```

gctctcactc catgaggtat ttcttcacat cgtgtcccc gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180
acggggagac acggaagtgt aaggccact cacagactca ccagtggtgac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacggacgc cccaaaacg catatgactc accacgtgt ctctgacct gaagccacc 600
tgagtgctg ggccctgagc ttctacctg cgagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acggagctg tggagaccag gcctgcagg gatggaacct 720
tccagaagtg ggcggctgtg gtggtgcct ctggacagga gcagagatac acctgccatg 780
tcagcatga gggttgccc aagccctca cctgagatg gg 822

```

&lt;210&gt; 50

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 50gctctcactc catgaggtat ttcttcacat cgtgtcccc gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180
acggggagac acggaagtgt aaggccact cacagactga ccagtggtgac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 51

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 51

```

gctctcactc catgaggtat ttcttcacat cgtgtcccc gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180
acggggagac acggaagtgt aaggccact cacagactca ccagtggtgac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 52

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 52

```

gctctcactc catgaggtat ttcttcacat cctgttccc gcccggccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgttctctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat gcacctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 53

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 53

```

gctctcactc catgaggtat ttcttcacat cctgttccc gcccggccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgttctctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat gcacctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gagacggccc atgaggcgga gcagcagaga gcctacctgg 480
agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 54

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 54

```

gctctcactc catgaggtat ttcttcacat cctgttccc gcccggccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtttggct 300
gcgacgtggg gtcggacggg cgttctctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat gcacctgaaa gaggacctgc gctcttggac cgcggcggac atggcggctc 420
agatcaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 55

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 55

```

gctctcactc catgaggtat ttcttcacat cctgttccc gcccggccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300

```

gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgggcgac atggcagctc 420  
 agaccaccaa gcacaagtgg gagggcgccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 56  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 56  
 gctctcactc catgaggtat ttctacacct ccgtgtccc gccggccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcggcgcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggc 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca gcagtacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgggcgac atggcagctc 420  
 agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 57  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 57  
 gctctcactc catgaggtat ttctcacat ccgtgtccc gccggccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcggcgcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggc 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgggcgac atggcagctc 420  
 agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 58  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 58  
 gctctcactc catgaggtat ttctacacct ccgtgtccc gccggccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcggcgcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggc 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgggcgac atggcagctc 420  
 agatcaccaa gcgaagtgg gagggcgccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 59  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 59  
 gctctcactc catgaggtat ttcttcacat cctgttcccg gcccggccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 accaggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgc tacgacggca 360  
 aggtattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 60  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 60atggccgtca tggcgcccc aacctcgtc ctgctactct cgggggctct ggccctgacc 60  
 cagacctggg cgggctctca ctccatgagg tattttctca catcctgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggt 240  
 ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tcaccagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 aggtatgtatg gctgcgacgt ggggtcggac tggcgcttc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggagcgcg cccatgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgacgg 619

<210> 61  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 61  
 gctctcactc catgaggtat ttcttcacat cctgttcccg gcccggccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccggag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 acggggagac acggaagtg aaggccact cacagagtca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctgc gcgggtacca ccagtacgc tacgacggca 360  
 aggtattacat cgccctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 62  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 62

```

gctctcactc catgaggtat ttcttcacat cegtgtcccgc gcccgccgc ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgttctctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 63

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 63

```

gctctcactc catgaggtat ttcttcacat cegtgtcccgc gcccgccgc ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgttctctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 64

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 64

```

gctccactc catgaggtat ttcttcacat ccatgtcccgc gcccgccgc ggggagcccc 60
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagagg atgtatggct 300
gcgacgtggg gccggacggg cgttctctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 65

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 65

```

gctctcactc catgaggtat ttctacacct cegtgtcccgc gcccgccgc ggggagcccc 60
gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180
acggggagac acggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300

```

gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggtattacat cgcctgaaa gaggacctgc gctcttgac cgcgccggac atggcagtc 420  
 agaccaccaa gcacaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 66  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 66  
 gctctcactc catgaggtat ttctcacat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccagtgagc ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttcctcc gcgggtatga acagcagcc tacgacggca 360  
 aggtattacat cgcctgaaa gaggacctgc gctcttgac cgcgccggac atggcagtc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 67  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
 gctctcactc catgaggtat ttctcacat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccagtgagc ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggtattacat cgcctgaaa gaggacctgc gctcttgac cgcgccggac atggcagtc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 68  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
 gctctcactc catgaggtat ttctcacat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gattattggg 180  
 accggaacac acggaagtg aaggccact cacagactca ccagtgagc ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttcctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggtattacat cgcctgaaa gaggacctgc gctcttgac cgcgccggac atggcagtc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 69  
 <211> 895  
 <212> DNA  
 <213> Homo sapiens

<400> 69  
 atggccgtca tggcgccccg aaccctcgct ctgctactct cgggggctct ggcctgacc 60  
 cagacctggg cgggctctca ctccatgagg tatttcttca catccgtgtc cggccccggc 120  
 cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tcaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccgtccag 360  
 aggatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccgtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagacc caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgccaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca cctgagggtg ctgggcctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cttccagaa gtggcggtgt gtgtgtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atggg 895

<210> 70  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 70 atggccgtca tggcgccccg aaccctcgct ctgctactct cgggggctct ggcctgacc 60  
 cagacctggg cgggctctca ctccatgagg tatttctaca cctccgtgtc cggccccggc 120  
 cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggt 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tcaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccctccag 360  
 atgatgtatg gctgcgacgt ggggtcggac tggcgcttcc tccgcgggta ccaccgtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagacc caagcacaag tgggaggcgg ccatgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgccaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca cctgagggtg ctgggcctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cttccagaa gtggcggtgt gtgtgtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atggggag 897

<210> 71  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 71  
 gctctcactc catgaggtat ttcttccat cctgtcccg gccggccgc ggggagcccc 60  
 gcttcatcgc agtgggttac gtggacgaca cgcagttcgt gcggttcgac agcgacgcgg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccagttggac ctggggacc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgcttctcc gcggtacca ccagtacgc tacgacggca 360  
 aggtattcat ggcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gagcgggccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 72  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 72  
 gctctcactc catgaggtat ttcttcacat cctgtcccg gcccgccgc gaggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgcccg ggatagagca ggagggtccg gattattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgttctctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat gcacctgaaa gaggacctgc gctcttgac gcggcgccgac atggcagctc 420  
 agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacggacgc ccccaaacg catatgactc accacgtgt ctctgacct gaagccaccc 600  
 tgaggtgtg ggcctgagc ttctacctg cgagatcac actgacctg cagcgggatg 660  
 gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720  
 tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac acctgccatg 780  
 tgcagcatga gggtttgccc aagccctca cctgagatg gg 822

<210> 73  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 73  
 gctctcactc catgaggtat ttcttcacat cctgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgcccg ggatagagca ggagggtccg gattattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300  
 gcgacgtggg gtcggactgg cgttctctcc gcgggtacca ccagtccgc tacgacggca 360  
 aggattacat gcacctgaaa gaggacctgc gctcttgac gcggcgccgac atggcagctc 420  
 agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 74  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 74  
 atggccgtca tggcgccccg aacctctctc ctgtactct cgggggcctt ggccctgacc 60  
 cagacctggg cgggtccca ctccatgagg tattttctca catccgtgc cggccccg 120  
 cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggtc 180  
 gacagcgacg ccgcagacca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 ataattgatg gctgcgacgt ggggtcggac gggcgcttc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcatgacac caagcgcaag tgggaggcgg cccatgaggc ggagcagttg 540  
 agagcctacc tggatggcac gtgcgtggag tggctccga gatacttga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccaccc catctctgac 660  
 catgaggcca cctgagggtg ctggccctg ggttctacc ctgcggagat cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcggtgt gtggtgtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 75  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 75  
 gctccactc catgaggtat ttctcacat cgtgtcccg gccggccgc ggggagcccc 60  
 gcttcacgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggccg gattattggg 180  
 accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcggcgcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcacaa gcgcaagtgg gaggcggccc atgaggcgga gcagctgaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 76  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 76  
 gctccactc catgaggtat ttctcacat cgtgtcccg gccggccgc ggggagcccc 60  
 gcttcacgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggccg gattattggg 180  
 accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcggcgcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcacaa gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 77  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 77  
 atggcgtca tggcgcccc aacctctc ctgctactct cgggggcctt ggcctgacc 60  
 cagacctggg cgggctccca ctcatgagg tatttttca catcgtgtc ccggcccg 120  
 cgcggggagc ccgcttcat cgcgtggg tacgtggacg acacgcagtt cgtgcggtc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccagtg 300  
 gacctgggga ccctgcggg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 ataattgatg gctgcagct ggggtcggac gggcgcttc tccggggta ccggcaggac 420  
 gcctacgacg gcaaggatta catgcctg aacgaggacc tgcgtcttg gaccgcggc 480  
 gacatggcgg ctcagatcac caagcgcaag tgggagggcg ccatgtggc ggagcagcag 540  
 agagcctacc tggatggcac gtgcgtggag tggctcgcga gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca ccctgagtg ctggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780



ggggatggaa ccttcagaa gtgggcggt gtggtggtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 78  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 78  
 atggccgtca tggcgcccc aacctctct ctgtactct cgggggcct ggcctgacc 60  
 cagacctggg cgggtccca ctccatgagg tatttttca catccgtgc cggccccgc 120  
 cgcggggagc ccgcttcat cgccgtgggc tacgtggagc acacgcagt cgtgcggttc 180  
 gacagcgagc ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggaggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggtcggac gggcgcttc tccgcgggta ccggcaggac 420  
 gcctacgagc gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggc 480  
 gacatggcgg ctacatcac caagcgcaag tgggaggcgg ccatgaggc ggagcagttg 540  
 agagcctacc tggatggcac gtgcgtggag tggctccga gatactgga gaaccggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcctg gcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tegtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggt gtggtggtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 79  
 <211> 858  
 <212> DNA  
 <213> Homo sapiens

<400> 79  
 tctcgggggc cctggccctg acccagacct gggcgggctc cactccatg aggtattct 60  
 tcacatccgt gtcccgccc ggcgcgggg agccccgtt catcgccgtg ggctacgtg 120  
 acgacacgca gttcgtcgg ttcgacagc acgccgcgag ccagaggatg gagccgcggg 180  
 cgccgtggat agagcaggag gggccggagt attgggacca ggagacacgg aatgtgaagg 240  
 cccatcaca gactgaccga gtggacctg ggacctgcg cggctactac aaccagagcg 300  
 aggccggttc tcacaccatc cagataatgt atggctcga cgtggggtcg gacgggcgt 360  
 tctcccgcg gtaccggcag gacgctacg acggcaagga ttacatgcc ctgaacgagg 420  
 acctgcctc ttggaccgag gggacatgg cggctcagat caccaagcg aagtgggagg 480  
 cggcccatga ggcggagcag ttgagacct acctggagg cagtgctg gagtggtcc 540  
 gcagatacct ggagaacggg aaggagacgc tgcagcgac ggaccccc aagacacata 600  
 tgaccacca cccatctct gacctgagg ccacctgag gtgctgggc ctggcttct 660  
 acctgcgga gatcacactg acctggcagc gggatgggga ggaccagacc caggacacgg 720  
 agctcgtgga gaccaggcct gcaggggatg gaacctcca gaagtggcg gctgtgtgg 780  
 tgcctctg agaggagcag agatacact gccatgtgca gcatgagggt ctgccaagc 840  
 cctcaccct gagatggg 858

<210> 80  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 80gctccactc catgaggtat ttcttcacat ccgtgtccg gcccgccgc ggggagcccc 60  
 gttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gattattggg 180  
 accaggagac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300

gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcggtc 420  
agatcaccaa gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga gcctacctgg 480  
atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 81  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 81  
gctccactc catgaggtat ttcttcacat cgtgtccc gcccggccgc ggggagcccc 60  
gcttcacgc cgtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgcc 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggccg gagtattggg 180  
accaggagac acggaatgtg aaggccact cacagactga ccgagtggac ctggggaccc 240  
tgcgggcta ctacaaccag agcgagccg gttctcacac catccagata atgtatggc 300  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcggtc 420  
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagttgaga gcctacctgg 480  
atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 82  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 82  
gctccactc catgaggtat ttcttcacat cgtgtccc gcccggccgc ggggagcccc 60  
gcttcacgc cgtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgcc 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggccg gagtattggg 180  
accaggagac acggaatgtg aaggccact cacagactga ccgagtggac ctggggaccc 240  
tgcgggcta ctacaaccag agcgagccg gttctcacac catccagata atgtatggc 300  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcggtc 420  
agatcaccaa gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga gcctacctgg 480  
atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 83  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 83  
gctccactc catgaggtat ttcttcacat cgtgtccc gcccggccgc ggggagcccc 60  
gcttcacgc cgtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgcc 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggccg gagtattggg 180  
accaggagac acggaatgtg aaggccact cacagactga ccgagtggac ctggggaccc 240  
tgcgggcta ctacaaccag agcgagccg gttctcacac catccagata atgtatggc 300  
gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcggtc 420  
agatcaccaa gcgcaagtgg gaggcggccc atgaggcgga gcagttgaga gcctacctgg 480  
atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 84  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 84  
 gctccactc catgaggtat ttctcacat cegtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcccgt ggatagagca ggaggggccc gattattggg 180  
 accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcggctc 420  
 agatcaccaa gcgcaagtgg gagggcgccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 85  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 85  
 atggcgtca tgggccccg aacctctc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggtccca ctccatgagg tatttctaca cctccgtgc cggccccgc 120  
 cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccgagatatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 ataatgtatg gctgcgacgt gggccggac gggcgcttc tccgcggtta ccggcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacaggagac tgcgtcttg gaccgcggcg 480  
 gacatggcag ctcatgac caagcgcaag tgggagggcg ccatgcggc ggagcagcag 540  
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catcttgac 660  
 catgaggcca cctgaggtg ctgggcctg gcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tegtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcggtg gtgtgtgtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagccc tcacctgag atgggag 897

<210> 86  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 86  
 gctccactc catgaggtat ttctacact cegtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcccgt ggatagagca ggaggggccc gattattggg 180  
 accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccagac atggcagctc 420  
 agatcaccaa gcgcaagtgg gaggcggccc atgcggcgga gcagcagaga gcctacctgg 480  
 agggcgggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacggaccc cccaagaca catatgaccc accacccat ctctgacct gaggcaccc 600  
 tgaggtgctg ggccctgggc ttctacctg cggagatcac actgacctg cagcgggatg 660  
 gggaggacca gaccaggac acggagctg tggagaccag gcctgcaggg gatggaacct 720

tccagaagtg ggcggctgtg gtggtgcctt ctggagagga gcagagatac acctgccatg 780  
 tgcagcatga gggctgtccc aagccctca ccctgagatg gg 822

<210> 87  
 <211> 895  
 <212> DNA  
 <213> Homo sapiens

<400> 87  
 atggccgtca tggcgccccg aaccctctc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcgggaagc cccgttcat gcctgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
 gacctgggga cctgcgcggt ctactacaac cagagcgagg acggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggcccggc gggcgcttc tccgcggtta ccggcaggac 420  
 gcttacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctcatcac caagcgaag tgggaggcgg cccatgcggc ggagcagcag 540  
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg gcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcggtg gtggtgtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagccc tcacctgag atggg 895

<210> 88  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens  
 <400> 88

gtcccactc catgaggtat ttctaacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accaggagac acggaatgtg aagcccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcac catccagata atgtatggct 300  
 gcgacgtggg gccgacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggtattcat gcacctgaac gaggaacctg gctcttgac cgcggcgac atggcagctc 420  
 agatcaccaa gcgcaagtgg gaggcggccc gtgaggcgga gcagcagaga gcctacctgg 480  
 agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 89  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 89  
 atggccgtca tggcgccccg aaccctctc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat gcctgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
 gacctgggga cctgcgcggt ctactacaac cagagcgagg acggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggcccggc gggcgcttc tccgcggtta ccggcaggac 420  
 gcttacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctcatcac caagcgaag tgggaggcgg cccatgcggc ggagcagcag 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600

gagacgctgc agcgacgga ccccccaag acacatatga cccaccaccc catctctgac 660  
 catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtggcggct gtgtgtgtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 90  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 90atggccgtca tggcggcccg aacctctctc ctgctactct cgggggcccct ggcctgacc 60  
 cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc cggcccggc 120  
 cgcgggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggcccggac gggcgcttcc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctcagatcac cgagcgcaag tgggaggcgg ccatgcggc ggagcagcag 540  
 agagcctacc tggaggggcg gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgctgc agcgacgga ccccccaag acacatatga cccaccaccc catctctgac 660  
 catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtggcggct gtgtgtgtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 91  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 91  
 gctcccactc catgaggtat ttctacacct cgtgtcccc gccggccgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180  
 accaggagac acggaatgtg aaggcccagt cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat gcctgaac gaggacctgc gctcttgagc cgcggcggac atggcagctc 420  
 agatcaccaa gcgaagtgg gagggggccc atgcggcgga gcagcagaga gcctacctgg 480  
 agggccggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 92  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 92  
 atggccgtca tggcggcccg aacctctctc ctgctactct cgggggcccct ggcctgacc 60  
 cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc cggcccggc 120  
 cgcgggggagc cccgcttcat cgccgtgggc tacgtggagc acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggcccggac gggcgcttac tccgcgggta ccggcaggac 420

gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctcagatcac caagcgcaag tgggaggcgg cccatgcggc ggagcagcag 540  
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cttccagaa gtggcggtgt gtggtgtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 93  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 93  
 gctccactc catgaggtat ttctacacct cgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accaggagac acggaatgtg aaggccagc cagactga ccgagtggac ctggggacc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcagtc 420  
 agatcaccaa gcgaagtgg gaggcggccc atgaggcgga gcagcgaga gcctacctg 480  
 agggccggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 94  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 94  
 gctccactc catgaggtat ttctacacct cgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accaggagac acggaatgtg aaggccagc cagactga ccgagtggac ctggggacc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcagtc 420  
 agatcaccaa gcgaagtgg gaggcggccc atgaggcgga gcagcagaga gcctacctg 480  
 agggccggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 95  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 95  
 gctccactc catgaggtat ttctacacct cgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccagc cagactga ccgagtggac ctggggacc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcagtc 420  
 agatcaccaa gcgaagtgg gaggcggccc atgaggcgga gcagcagaga gcctacctg 480

agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcacgg 546

<210> 96  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 96  
gtctccactc catgaggtat ttctacacct cegtgtccc gcccggccgc ggggagcccc 60  
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
acctgcagac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240  
tgcgcggtc ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
agatcaccaa gcgcaagtgg gaggcggccc atcgggcgga gcagcagaga gcctacctgg 480  
agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcacgg 546

<210> 97  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 97  
ggctccact ccatgaggtat ttctacacc tcegtgtccc ggcccggccg cggggagccc 60  
cgcttcacgc cgtgggctac cgtggacgac acgcagttcg tgcggttcga cagcgacgcc 120  
gcgagccaga ggatggagcc gcggcgccg tggatagagc aggaggggcc ggagtattgg 180  
gaccaggaga cacggaatgt gaaggccag tcacagactg accgagtgga cctggggacc 240  
ctgcgcggt actacaacca gagcgaggcc ggttctcaca ccatccagat aatgtatggc 300  
tgcgacgtgg gccggacgg gcgcttctc cgcgggtacc ggaggacgc ctacgacggc 360  
aaggattaca tcgcctgaa cgaggacctg cgtcttgga ccgcgccgga catggcagct 420  
cagatcacca agcgaagtg ggaggcgccc catcgggcgg agcagcagag agcctacctg 480  
gagggccggt gcgtggagtg gctccgaga tacctggaga acgggaagga gacgtgcagc 540  
cgacag 546

<210> 98  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 98  
gtctccactc catgaggtat ttctacacct cegtgtccc gcccggccgc ggggagcccc 60  
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accaggagac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240  
tgcgcggtc ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
gcgacgtggg gccggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
agatcaccaa gcgcaagtgg gaggcggccc atcgggcgga gcagcagaga gcctacctgg 480  
agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcacgg 546

<210> 99  
<211> 573

<212> DNA  
<213> Homo sapiens

<400> 99

```
cctggccct gaccagacc tggcgggct cccactccat gaggtatttc tacacctcg 60
tgtcccggcc cggcgcgccg aagccccgt tcatcgccgt gggctacgtg gacgacacgc 120
agttcgtgcg gttcgacagc gacggcgga gccagaggat ggagccgcgc gcgccgtgga 180
tagagcagga ggggcccggag tattgggacc aggagacacg gaatgtgaag gccagtcac 240
agactgacgc agtggacctg gggacctgc ggggtacta caaccagagc gaggacggtt 300
ctcacacccat ccagataatg tatggctgcg acgtggggcc ggacggggcg ttcctccgcg 360
ggtaccggca ggacgcctac gacggcaagg attacatgc cctgaacgag gacctgcgt 420
cttgaccgcg ggcggacatg gcagtcaga tcaccaagcg caagtgggag gcggcccgct 480
ggcgggagca gcagagagcc tacctggagg gccggtgcgt ggagtggctc gcagatacc 540
tggagaacgg gaaggagacg ctgcagcgca cgg 573
```

<210> 100  
<211> 897  
<212> DNA  
<213> Homo sapiens  
<400> 100

```
atggccgtca tggcgccccg aacctcgctc ctgctactct cggggggcct ggccctgacc 60
cagacctggg caggctccca ctccatgagg tattttctcca catccgtgtc ccggcccggc 120
cgcgggggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagag 300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccctccag 360
atgatgtttg gctgcgacgt ggggtcggac ggcgcgttcc tccgcgggta ccaccgtac 420
gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgtctttg gaccgcggcg 480
gacatggcgg ctacagatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggac gggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcacgga ccccccaag acacatatga cccaccacc catctctgac 660
catgaggcca ctctgagatg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780
gggatggaa ccttcagaa gtgggcagct gtggtggtac cttctggaga ggagcagaga 840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897
```

<210> 101  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 101

```
gtctccactc catgaggtat ttctccacat ccgtgtccc gcccggccgc ggggagcccc 60
gtttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gattattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccagagagaac ctgcgcatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc ggggtacca ccagtaccc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcgac atggcggtc 420
agatcaccca gcgcaagtgg gagcgggccc gtgtggcgga gcagtggaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546
```

<210> 102  
<211> 546  
<212> DNA  
<213> Homo sapiens



&lt;400&gt; 102

```

gctcccactc catgaggtat ttctccacat cegtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccttgaac gaggacctgc gctcttgac cgcgccggac atggcggctc 420
agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 103

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 103

```

gctcccactc catgaggtat ttctccacat cegtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccttgaac gaggacctgc gctcttgac cgcgccggac atggcggctc 420
agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 104

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 104

```

gctcccactc catgaggtgt ttctccacat cegtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgccttgaac gaggacctgc gctcttgac cgcgccggac atggcggctc 420
agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 105

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 105

```

atggccgtca tggcgcccc aacctcgtc ctgtactct cgggggccct ggccctgacc 60
cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc ccggccggc 120
cgcggggagc cccgttcat cgccgtggg tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagag 300

```

```

aacctgcgga tcgcgtccg ctactacaac gagagcgagg ccggttctca caccctccag 360
atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccaccagtac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg gaccgcggcg 480
gacatggcgg ctcagatcac ccagcgcaag tgggagggcg cccgtgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgcacgga ccccccaag acacatatga cccaccacc catctctgac 660
catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780
gggatggaa cctccagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga 840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

```

<210> 106  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

```

<400> 106
atggcgtca tggcgcccc aacctcgtc ctgtactct cgggggccct ggccctgacc 60
cagacctggg caggtccca ctccatgagg tatttctcca catccgtgtc ccggcccggc 120
cgcgggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac tgaccgagag 300
aacctgcgga tcgcgtccg ctactacaac gagagcgagg ccggttctca caccctccag 360
atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccaccagtac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg gaccgcggcg 480
gacatggcgg ctcagatcac ccagcgcaag tgggagggcg cccgtgtggc ggagcagttg 540
agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgcacgga ccccccaag acacatatga cccaccacc catctctgac 660
catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780
gggatggaa cctccagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga 840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

```

<210> 107  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

```

<400> 107
atggcgtca tggcgcccc aacctcgtc ctgtactct cgggggccct ggccctgacc 60
cagacctggg caggtccca ctccatgagg tatttctcca catccgtgtc ccggcccggc 120
cgcgggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccagga gacagggaaa gtgaaggccc actcacagac tgaccgagag 300
aacctgcgga tcgcgtccg ctactacaac gagagcgagg ccggttctca caccctccag 360
atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccaccagtac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg gaccgcggcg 480
gacatggcgg ctcagatcac caagcgcaag tgggagggcg cccatgtggc ggagcagcag 540
agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgcacgga ccccccaag acacatatga cccaccacc catctctgac 660
catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780
gggatggaa cctccagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga 840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

```

<210> 108  
 <211> 546

<212> DNA  
 <213> Homo sapiens

<400> 108  
 gctccactc catgaggtat ttctccacat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 acgaggagac agggaaagtg aaggcccaact cacagactga ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 109  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 109  
 atggccgtca tggcgcccc aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg caggtccca ctccatgagg ttttttcca catccgtgtc ccggcccgcc 120  
 cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccctccag 360  
 atgatgttg gctgcgacgt ggggtcggac gggcgttcc tccgcgggta ccaccgtac 420  
 gcctacgacg gcaaggatta catgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctacatcac caagcgcaag tgggaggcgg cccatgtggc ggagcagcag 540  
 agagcctacc tggaggcac gtgcgtggac gggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca ctctgagatg ctggccctg ggcttctacc ctgcagagat cacttgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 110  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 110 gctccactc catgaggtat ttctccacat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 acgaggagac agggaaagtg aaggcccaact cacagactga ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtatgc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 111  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 111

```

atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggcct ggccctgacc 60
cagacctggg caggtccca ctccatgagg tatttctcca catccgtgtc ccggcccggc 120
cgcggggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagag 300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccctccag 360
atgatgtttg gctgcgacgt ggggtcggac gggcgcttc tccggggta ccaccagtac 420
gcctacgacg gcaaggatta catgccttg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcgg ctcatatcac caagcgcaag tgggaggcgg ccatgtggc ggagcagcag 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgctgc agcgacgga ccccccaag acacatatga ccaccacc catctctgac 660
catgaggcca ctctgagatg ctgggcctg ggctctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780
ggggatggaa cctccagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga 840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

```

&lt;210&gt; 112

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 112

```

gctcccactc catgaggtat ttctccacat ccgtgtccc gcccggccgc ggggagcccc 60
gcttcacgcg cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcgg 120
cgagccagag gatggagccg cgggcgcctg ggatagagca ggagggggcg gattattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat gccttgaaa gaggacctgc gctcttgac cgcgcgggac atggcggtc 420
agatcaccaa gcgcaagtgg gagggggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgtgcagc 540
gcactg 546

```

&lt;210&gt; 113

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 113

```

atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggcct ggccctgacc 60
cagacctggg caggtccca ctccatgagg tatttctcca catccgtgtc ccggcccggc 120
cgcggggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagcg 300
aacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccctccag 360
atgatgtttg gctgcgacgt ggggtcggac gggcgcttc tccggggta ccaccagtac 420
gcctacgacg gcaaggatta catgccttg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcgg ctcatatcac caagcgcaag tgggaggcgg ccatgtggc ggagcagcag 540
agagcctacc tggagggcac gtgcgtggac gggctccgca gatactgga gaacgggaag 600
gagacgctgc agcgacgga ccccccaag acacatatga ccaccacc catctctgac 660
catgaggcca ctctgagatg ctgggcctg ggctctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780
ggggatggaa cctccagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga 840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

```

<210> 114  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 114  
 gctccactc catgaggtat ttctccacat cegtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 115  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 115  
 gctccactc catgaggtat ttctccacat cegtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcggctc 420  
 agatcaccaa gcgcaagtgg gaggcgccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 116  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 116  
 atggccgtca tggcgcccc aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg caggtccca ctccatgagg tatttctca catccgtgc cggccccgc 120  
 cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggccc cgtggataga gcaggagggg 240  
 ccggagtatt gggacgagga gacagggaaa gtgaaggccc agtcacagac tgaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccctccag 360  
 atgatgtttg gctgcgacgt ggggtcggac gggcgcttc tccggggta ccaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcctcttg gaccgggcg 480  
 gacatggcgg ctccagatcac caagcgcaag tgggaggcgg cccatgtggc ggagcagcag 540  
 agagcctacc tggagggcac gtgcgtggac gggctccgca gatacttga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtgggcagct gtggtggtac ctctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 117  
 <211> 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

```

atggccgtca tggcgccccg aacctcgtc ctgctactct cgggggccct ggcctgacc    60
cagacctggg caggctccca atccatgagg tatttctcca catccgtgtc ccggcccggc   120
cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc   180
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg   240
ccggagtatt gggacgggga gacacgaaa gtgaaggccc actcacagac tgaccgagag   300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccctccag   360
atgatgtttg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccaccagtac   420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg   480
gacatggcgg ctcagatcac caagcgcaag tgggaggcgg cccatgtggc ggagcagcag   540
agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga gaacgggaag   600
gagacgtgcg agcgacgga ccccccaag acacatatga cccaccacc catctctgac   660
catgaggcca ctctgagatg ctgggccctg ggcttctacc ctgcggagat cacactgacc   720
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca   780
ggggatggaa cttccagaa gtgggcagct gtggtgttac cttctggaga ggagcagaga   840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag   897

```

&lt;210&gt; 118

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

```

gtcctcactc catgaggtat ttctccacat cegtgtccc gcccggccgc ggggagcccc    60
gcttcacgcg cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg   120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg   180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg   240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct   300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca   360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcggaac atggcggtc   420
agatcaccaa gcgaagtgg gagcgggccc atgtggcgga gcagcagaga gcctacctgg   480
agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc   540
gcacgg                                           546

```

&lt;210&gt; 119

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 119

```

gtcctcactc catgaggtat ttctccacat cegtgtccc gcccggccgc ggggagcccc    60
gcttcacgcg cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg   120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg   180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg   240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct   300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca   360
aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgcggaac atggcggtc   420
agatcaccaa gcgaagtgg gagcgggccc atgtggcgga gcagttgaga gcctacctgg   480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgtgcagc   540
gcacgg                                           546

```

&lt;210&gt; 120&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 120

```
gctccactc catgaggtat ttctccacat cgtgtcccg gcccgccgc ggggagcccc 60
gcttcatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cgtccagagg atgtatggct 300
gcgacgtggg gtcggactgg cgttctctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcggctc 420
agatcaccaa gcgaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546
```

&lt;210&gt; 121

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 121

```
gctccactc catgaggtat ttctccacat cgtgtcccg gcccgccgc ggggagcccc 60
gcttcatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgttctctcc gcgggtacca ccagtacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcggctc 420
agatcaccaa gcgaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546
```

&lt;210&gt; 122

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 122

```
gctccactc catgaggtat ttctccacat cgtgtcccg gcccgccgc ggggagcccc 60
gcttcatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgttctctcc gcgggtaccg gcaggacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcggctc 420
agatcaccaa gcgaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546
```

&lt;210&gt; 123

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 123

```
gctccactc catgaggtat ttctccacat cgtgtcccg gcccgccgc ggggagcccc 60
gcttcatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
```

gcgacgtggg gtcggacggg cgcttctcc ggggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcaccaa gcgcaagtgg gaggcgccc atgaggcgga gcagttgaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 124  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 124  
 gctccactc catgaggtat ttctccacat ccgtgtcccg gccggccgc ggggagcccc 60  
 gcttcacgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cggcgccgt gtagagaca ggaggggccg gattattggg 180  
 acgaggagac agggaaagtg aaggccact cacagactga ccgagtgac ctggggaccc 240  
 tgcgggcta ctacaaccag agcgaggacg gttctcacac cctccagatg atgtttggt 300  
 gcgacgtggg gtcggacggg cgcttctcc ggggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcaccaa gcgcaagtgg gaggcgccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 125  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 125  
 gctccaatc catgaggtat ttctccacat ccgtgtcccg gccggccgc ggggagcccc 60  
 gcttcacgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cggcgccgt gtagagaca ggaggggccg gattattggg 180  
 acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatc 240  
 cgctccgta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggt 300  
 gcgacgtggg gtcggacggg cgcttctcc ggggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcaccaa gcgcaagtgg gaggcgccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 126  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 126  
 gctccactc catgaggtat ttctccacat ccgtgtcccg gccggccgc ggggagcccc 60  
 gcttcacgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cggcgccgt gtagagaca ggaggggccg gattattggg 180  
 acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatc 240  
 cgctccgta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggt 300  
 gcgacgtggg gtcggacggg cgcttctcc ggggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcaccaa gcgcaagtgg gaggcgccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546



<210> 127  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 127  
atggccgtca tggcgccccg aacctcgtc ctgctactct cgggggccct ggccctgacc 60  
cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc ccggcccggc 120  
cgcggggagc ccgcttcat cgcctgggc tacgtggacg acacgcagtt cgtgcggttc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagag 300  
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccctccag 360  
atgatgtttg gctgcgacgt ggggtcggac gggcgcttc tccgcgggta ccaccgtac 420  
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
gacatggcgg ctacgatcac caagcgcaag tgggaggcgg cccatgtggc ggagcagtg 540  
agagtctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
catgaggcca ctctgagatg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
ggggatggaa cttccagaa gtgggcagct gtggtggtac cttctggaga ggagcagaga 840  
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 128  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 128  
gctcccactc catgaggtat ttctccacat cegtgtcccg gcccggccgc ggggagcccc 60  
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat gcacctgaaa gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
agatcaccaa gcgaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
agggcacgtg cgtggactgg ctccgagat acctggagaa cgggaaggag acgtgcagc 540  
gcacgg 546

<210> 129  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 129  
gctcccactc catgaggtat ttctccacat cegtgtcccg gcccggccgc ggggagcccc 60  
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180  
accggaacac acggaatgtg aaggccagt cacagactga ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat gcacctgaaa gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
agatcaccaa gcgaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
agggcacgtg cgtggacggg ctccgagat acctggagaa cgggaaggag acgtgcagc 540  
gcacgg 546

<210> 130  
<211> 546  
<212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 130

```

gctccactc catgaggtgt ttctccacat cegtgtcccg gcccgccgc ggggagcccc    60
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg    120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg    180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg    240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct    300
gcgacgtggg gtggacggg cgttctctcc gcgggtacca ccagtacgcc tacgacggca    360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcggctc    420
agatcaccaa gcgaagtgg gaggcggccc atgtggcga gcagcagaga gcctacctgg    480
agggcacgtg cgtggacggg ctccgagat acctggagaa cggaaggag acgtgcagc    540
gcacgg                                           546

```

&lt;210&gt; 131

&lt;211&gt; 599

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 131

```

aaccctctc ctgtactct cgggggccct ggccctgacc cagacctggg caggctccca    60
ctccatgagg tatttctcca catccgtgtc ccggcccgcc cgcggggagc cccgcttcat    120
cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc gacagcgacg ccgcgagcca    180
gaggatggag ccgcgggcgc cgtggataga gcaggagggg ccggagtatt gggacgagga    240
gacagggaaa gtgaaggccc actcacagac tgaccgagag aacctgcgga tcgcgtccg    300
ctactacaac cagagcgagg ccggttctca caccctccag atgatgttg gctgcgacgt    360
ggggtcggac ggcgcttcc tccacgggta ccaccagtac gcctacgacg gcaaggatta    420
catcgccctg aaagaggacc tgcgtcttg gaccgcggcg gacatggcgg ctcatcac    480
caagcgcaag tgggaggcgg cccatgtggc ggagcagcag agagcctacc tggagggcac    540
gtgcgtggac gggctccgca gatactgga gaacgggaag gagacgctgc agcgcacgg    599

```

&lt;210&gt; 132

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 132

```

atggccgtca tggcgcccc aaccctgtc ctgtactct cgggggccct ggccctgacc    60
cagacctggg caggctccca ctccatgagg tatttctcca catccgtgtc ccggcccgcc    120
cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc    180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg    240
ccggagtatt gggacgagga gacagggaaa gtgaaggccc actcacagac tgaccgagag    300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccctccag    360
atgatgttg gctgcgacgt ggggtcggac ggcgcttcc tccgcgggta ccaccagtac    420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg    480
gacagggcgg ctcatcac caagcgcaag tgggaggcgg cccatgtggc ggagcagcag    540
agagcctacc tggagggcac gtgcgtggac gggctccgca gatactgga gaacgggaag    600
gagacgctgc agcgcacgg                                           619

```

&lt;210&gt; 133

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 133

```

gctccactc catgaggtat ttctccacat cegtgtcccg gcccgccgc ggggagcccc    60
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg    120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg    180

```

acgaggagac agggaaagtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgggcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac atggcggctc 420  
 agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 134  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 134  
 gctccactc catgaggtat ttctccacat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 acgaggagac acggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac atggcggctc 420  
 agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 135  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 135  
 gctccactc catgaggtat ttctccacat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 acgaggagac agggaaagtg aaggccact cacagactca ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac atggcggctc 420  
 agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 136  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 136  
 gctccactc catgaggtat ttctccacat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 acgagcagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac atggcggctc 420  
 agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540

gcacgg

546

&lt;210&gt; 137

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 137

```

gctccactc catgaggtat ttctccacat cgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagagc ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac gcggcgga atggcggtc 420
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 138

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 138

```

gctccactc catgaggtat ttctccacat cgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaa ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac gcggcgga atggcggtc 420
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacggacgc cccaaaacg catatgactc accacgctgt ctctgacct gaagccacc 600
tgaggtgtg gccctgagc ttctacctg cggagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcagg gatggaacct 720
tccagaagtg ggcggctgtg gtgtgcctt ctggacagga gcagagatac acctgccatg 780
tgcagcatga gggtttgccc aagccctca cctgagatg gg 822

```

&lt;210&gt; 139

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 139

```

gctccactc catgaggtat ttctccacat cgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180
acgaggagac agggaaagtg aaggccact cacagattga ccgagagaa ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac gcggcgga atggcggtc 420
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

<210> 140  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 140gtctccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc ggggagcccc 60  
gtttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg tgggcgccgt ggatagagca ggaggggccg gattattggg 180  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgcctgaaa gaggacctgc gctcttgac gcggcgac atggcggtc 420  
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
agggcacgtg cgtggacggg ctccgagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 141  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 141  
gtctccactc catgaggtat ttctccacat ccgtgtcccg gcccggccgc ggggagcccc 60  
gtttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagctg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgcctgaaa gaggacctgc gctcttgac gcggcgac atggcggtc 420  
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
agggcacgtg cgtggacggg ctccgagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 142  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 142  
gtctccactc catgagctat ttctccacat ccgtgtcccg gcccggccgc ggggagcccc 60  
gtttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
aggattacat cgcctgaaa gaggacctgc gctcttgac gcggcgac atggcggtc 420  
agatcaccaa gcgcaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480  
agggcacgtg cgtggacggg ctccgagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 143  
<211> 898  
<212> DNA  
<213> Homo sapiens

<400> 143  
atggccgtca tgggccccg aaccctctc ctgctactct cgggggccct ggcctgacc 60

cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc ccggcccggc 120  
 cgccggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcgggtc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagag 300  
 agcctgcgga tcgcgtccg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggtatgatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta ccagcaggac 420  
 gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctacatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtgg 540  
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga bgaacgggaa 600  
 ggagacgtg cagcgacgg acgccccaa gacgatatg actcaccacg ctgtctctga 660  
 ccatgaggcc accctgaggt gctgggccct gagcttctac cctgcggaga tcacactgac 720  
 ctggcagcgg gatggggagg accagaccca ggacacggag ctctggaga ccaggcctgc 780  
 aggggatggg acctccaga agtgggcgtc tgtgtgtgtg cttctggac aggagcagag 840  
 atacacctgc catgtgcagc atgagggtct gcccaagccc ctcacctga gatgggag 898

&lt;210&gt; 144

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 144

atggccgtca tggcgcccc aaccctcgtc ctgctactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc ccggcccggc 120  
 cgccggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcgggtc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagag 300  
 agcctgcgga tcgcgtccg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggtatgatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta ccagcaggac 420  
 gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctacatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtgg 540  
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga gaacgggaa 600  
 gagacgtgc agcgacgga gcccccaag acgatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga ccttcagaa gtgggcgtct gtggtgtgtc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

&lt;210&gt; 145

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 145

gctcccactc catgaggtat ttcttcacat cgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca gcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagagagc ctgcggatcg 240  
 cgtccgcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc ggggtacca gcaggacgt tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcaccca gcgaagtgg gagacggccc atgaggcgga gcagtggaga gctacctgg 480  
 agggccgggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

&lt;210&gt; 146

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 146

```

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acggaatgtg aaggccact cacagactga ccgagagagc ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300
gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgt tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcttgac cgcgccggac atggcggctc 420
agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagcagaga gctacctgg 480
agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 147

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 147

```

atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60
cagacctggg cgggtccca ctccatgagg tatttctaca cctccgtgc ccggccggc 120
cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagcg 300
aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360
aggatgtatg gctgcgacgt ggggcccggac gggcgcttcc tccgcggtta ccagcaggac 420
gcttacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480
gacatggcgg ctcatatc cagcgcaag tgggagacgg cccatgaggc ggagcagtgg 540
agagcctacc tggagggccg gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgacgga cggcccaag acgcatatga ctcaccacgc tgtctctgac 660
catgaggcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggga cttccagaa gtgggcgtct gtggtgtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

```

&lt;210&gt; 148

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 148

```

atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60
cagacctggg cgggtccca ctccatgagg tatttctaca cctccgtgc ccggccggc 120
cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagcg 300
aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360
aggatgtatg gctgcgacgt ggggcccggac gggcgcttcc tccgcggtta ccagcagaac 420
gcttacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480
gacatggcgg ctcatatc cagcgcaag tgggagacgg cccatgaggc ggagcagtgg 540
agagcctacc tggagggccg gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgacgga cggcccaag acgcatatga ctcaccacgc tgtctctgac 660
catgaggcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggga cttccagaa gtgggcgtct gtggtgtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

```

<210> 149  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 149  
 atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tattttaca cctccgtgtc cgggccggc 120  
 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tcaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggccggac gggcgcttc tccgcgggta ccagcaggac 420  
 gcttacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctacagatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtg 540  
 agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgccccaaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga cttccagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 150  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 150  
 atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tattttaca cctccgtgtc cgggccggc 120  
 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagcg 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggccggac gggcgcttc tccgcgggta ccagcaggac 420  
 gcttacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctacagatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgccccaaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga cttccagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 151  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 151  
 atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tattttaca cctccgtgtc cgggccggc 120  
 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagag 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggccggac gggcgcttc tccgcgggta ccagcaggac 420  
 gcttacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcttg gaccgcggcg 480



gacatggcgg ctcatgtcac ccagcgcaag tgggagacgg cccatgagge ggagcagtgg 540  
 agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgcccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga cctccagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacactgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 152  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 152  
 gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgcctt ggatagagca ggaggggccc gattattggg 180  
 accggaacac acggaatgtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggtta ctacaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 ggcagtgagg gccggacggg cgtctctcc gcgggtacca gcgggacgt tacgacggca 360  
 aggattacat cccctgaac gaggacctgc gctctggac cgcggcggac atggcggtc 420  
 agatcaccca gcgaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480  
 agggccggtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 153  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 153  
 atggccgtca tggcgcccc aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gcagcgcagc ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggacgggga gacacggaaa gtgaaggccc actcacagac tgaccgagcg 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gtcgcagct ggggccggac gggcgttcc tccgcgggta ccagcaggac 420  
 gcttacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcatgtcac ccagcgcaag tgggagacgg cccatgagge ggagcagtgg 540  
 agagcctacc tggagggccg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgcccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga cctccagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacactgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 154  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 154  
 atggccgtca tggcgcccc aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gcagcgcagc ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240

ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagcg 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta ccagcaggac 420  
 gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagcag 540  
 agagcctacc tggaggggcg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcaccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga cttccagaa gtggcgctct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 155  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 155  
 gctcccactc catgaggtat ttctacacct cegtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgcgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggattacat gcacctgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcaccca gcgaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 156  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 156  
 gctcccactc catgaggtat ttctacacct cegtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgcgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggattacat gcacctgaaa gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcaccca gcgaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480  
 agggccggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 157  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 157  
 gctcccactc catgaggtat ttctacacct cegtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgcgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300

gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gagacggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggccgggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 158  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 158  
 gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accggaacac acggaatgtg aaggccact cactagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480  
 agggccgggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 159  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 159  
 gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accggaacac acggaatgtg aaggccact cactagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttcctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gagcggccc atgaggcgga gcagtggaga gcctacctgg 480  
 agggccgggtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 160  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 160  
 atggccgtca tgggccccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg ttttctaca cctccgtgc cggccccgc 120  
 cgcggggagc cccgttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggtg 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagcg 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggtatgtat gctgcgacgt ggggccggac gggcgcttc tccgcgggta ccagcaggac 420  
 gcttacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcatatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtg 540  
 agagcctacc tggagggccg gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga cggcccaag acgcatatga ctaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720

tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggga ccttcagaa gtggcgctct gtggtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 161  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 161  
 gctccactc catgaggtat ttctccat cctgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480  
 agggccgggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 162  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 162  
 gctccactc catgaggtat ttctacacct cctgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gtactcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480  
 agggccgggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 163  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 163  
 gctccactc catgaggtat ttctacacct cctgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagtggaga gcctacctgg 480  
 agggccgggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 164

<211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 164  
 atggccgtca tggcgccccg aaccctctc ctgtactct tgggggccct ggccctgacc 60  
 cagacctggg cggtctccca ctccatgagg tatttcacca catccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgccgtgggc tacgtggagc acacgcagtt cgtgcggttt 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcac cgtggataga gcaggagggg 240  
 ccggagtatt gggacctgca gacacggaat gtgaaggccc agtcacagac tgaccgagcg 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgccagc ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgcccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgagggtg ctgggcctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
 ggggatggaa cttccagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 165  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 165  
 atggccgtca tggcgccccg aaccctctc ctgtactct tgggggccct ggccctgacc 60  
 cagacctggg cggtctccca ctccatgagg tatttcacca catccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgccgtgggc tacgtggagc acacgcagtt cgtgcggttt 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcac cgtggataga gcaggagggg 240  
 ccggagtatt gggacctgca gacacggaat gtgaaggccc agtcacagac tgaccgagcg 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgcccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgagggtg ctgggcctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
 ggggatggaa cttccagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 166  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 166  
 atggccgtca tggcgccccg aaccctctc ctgtactct tgggggccct ggccctgacc 60  
 cagacctggg cggtctccca ctccatgagg tatttcacca catccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgccgtgggc tacgtggagc acacgcagtt cgtgcggttt 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcac cgtggataga gcaggagggg 240  
 ccggagtatt gggacctgca gacacggaat gtgaaggccc agtcacagac tgaccgagcg 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540

agagcctacc tggagggcac gtgcgtggac gggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacagga cgcaccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca ccttgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcgtct gtggtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 167  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 167  
 gctcccactc catgaggtat ttcaccacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcaccgt ggatagagca ggagggccg gagtattggg 180  
 acctgcagac acggcatgtg aaggcccagt cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccttgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 168  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 168  
 gctcccactc catgaggtat ttcaccacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcaccgt ggatagagca ggagggccg gagtattggg 180  
 acctgcagac acggaatgtg aaggcccagt cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccttgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc atgaggcgga gcagcagaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 169  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 169  
 gctcccactc catgaggtat ttcaccacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcaccgt ggatagagca ggagggccg gagtattggg 180  
 acctgcagac acggaatgtg aaggcccagt cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccttgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 170  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 170  
 gctccactc catgaggtat ttaccacat cgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcaccgt ggatagagca ggagggggccg gagtattggg 180  
 acctgcagac acggaatgtg aaggccagc cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagatg atgtttggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccttgaac gaggacctgc gctcttgac gcggcgccg atggcggtc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 171  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 171  
 atggccgtca tggcgccccg aacctctc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctcca catccgtgtc ccggcccgcc 120  
 agtggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagagg 240  
 cctgagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
 gacctgggga ccctgcggg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggtcggac gggcgcttc tccggggta tgaacagcac 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctacagcac ccagcgcaag tgggaggcgg ccggttggcg ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctcgcga gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atgggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcggtgt gtggtgtgct cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg ccaagcccc tcacctgag atgggag 897

<210> 172  
 <211> 887  
 <212> DNA  
 <213> Homo sapiens

<400> 172  
 atggccgtca tggcgccccg aacctctc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctcca catccgtgtc ccggcccgcc 120  
 agtggagagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagagg 240  
 cctgagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagag 300  
 aacctgggga ccctgcggg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggtcggac gggcgcttc tccggggta tgaacagcac 420  
 gcaaggtatta catgcctc aacgaggacc tgcgtcttg gaccgcggcg gacatggcgg 480  
 ctacgatcac ccagcgcaag tgggaggcgg ccgctcggcg ggagcagttg agagcctacc 540  
 tggaggggcac gtgcgtggag tggctcgcga gatactgga gaacgggaag gagacgtgc 600  
 agcgacgga ccccccaag acacatatga cccaccacc catctctgac catgaggcca 660  
 ccctgagggt ctgggccctg ggcttctacc ctgcggagat cacactgacc tggcagcggg 720  
 atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca ggggatggaa 780  
 ccttcagaa gtggcggtgt gtggtgtgct cttctggaga ggagcagaga tacacctgcc 840

atgtgcagca tgagggctctg cccaagcccc tcacctgag atgggag

887

<210> 173

<211> 767

<212> DNA

<213> Homo sapiens

<400> 173

ggctccact ccatgaggtat tttctccaca tccgtgtccc ggcccggcag tggagagccc 60  
cgcttcacgc cagtgggcta cgtggacgac acgcagttcg tgcggttcga cagcgacgcc 120  
gcgagccaga ggatggagcc gcgggcgcgc tggatagagc aggaggggcc ggagtattgg 180  
gaccaggaga cacggaatgt gaaggccac tcacagactg accgagagaa cctggggacc 240  
ctgcgcggct actacaacca gagcgaggcc ggttctcaca ccatccagat aatgtatggc 300  
tgcgacgtgg gtcgggacgg gcgcttctc cgcggttatg aacagcacgc ctacgacggc 360  
aaggattaca tcgccctgaa cgaggacctg cgctcttga cgcggcgga catggcggct 420  
cagatcacc agcgcaagt ggaggcgcc cgctggcggc agcagttgag agcctacctg 480  
gagggcacgt gcgtggagt gctccgcaga tacctggaga acgggaagga gacgtgcag 540  
cgcacggacc ccccaagac acatatgacc caccaccca tctctgacca tgaggccacc 600  
ctgaggtgct gggccctggg cttctacct gcggagatca cactgacctg gcagcgggat 660  
ggggaggacc agaccagga caggagctc gtggagacca ggctgcagg ggatggaacc 720  
ttcagaagt gggcggtgt ggtggtgct tctggagagg agcagag 767

<210> 174

<211> 546

<212> DNA

<213> Homo sapiens

<400> 174

gctccactc catgaggtat ttctccacat ccgtgtccc ggcccggcag ggagagcccc 60  
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg gcgggcgcgc ggatagagca ggagaggcct gattattggg 180  
accaggagac acggaatgtg aaggccact cacagactga ccgagagaa ctggggacc 240  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggt 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360  
aggattacat gcacctgaac gaggacctgc gctcttgga cgcggcgga atggcggctc 420  
agatcaccca gcgaagtgg gaggcgccc atgtggcgga gcagtggaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
gcacgg 546

<210> 175

<211> 546

<212> DNA

<213> Homo sapiens

<400> 175

gctccactc catgaggtat ttctccacat ccgtgtccc ggcccggcag ggagagcccc 60  
gcttcacgc agtgggctac gtggacgacg cgcagttcgt gcggttcgac agcgacgccg 120  
cgagccagag gatggagccg gcgggcgcgc ggatagagca ggagaggcct gattattggg 180  
accaggagac acggaatgtg aaggccact cacagactga ccgagagaa ctggggacc 240  
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggt 300  
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360  
aggattacat gcacctgaac gaggacctgc gctcttgga cgcggcgga atggcggctc 420  
agatcaccca gcgaagtgg gaggcgccc atgtggcgga gcagtggaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
gcacgg 546



<210> 176  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 176  
 gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt ggagagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180  
 acgaggagac agggaaagtg aaggccact cacagactga ccgagagaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctctcc gcgggtatga acagcagcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtcggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 177  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 177  
 atggccgtca tggcgccccg aacctctc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggtctca ctccatgagg ttttctaca cctccgtgc ccggcccgcc 120  
 agtggagagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcagacca gaggatggag ccgcggcgcc cgtggataga gcaggagagg 240  
 cctgagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 ataattgatg gtcgcgacgt ggggtcggac gggcgcttc tccgcgggta tgaacagcac 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctacatcac ccagcgcaag tgggaggcgg ccggttggc ggagcagttg 540  
 agagcctacc tggaggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacctgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggct gtggtgtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagccc tcacctgag atgggag 897

<210> 178  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 178  
 gctcccactc catgaggtat ttctccacat ccgtgtcccg gcccggcagt ggagagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180  
 accaggagac acggaatgtg aaggccact cacagactga ccgagagaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctctcc gcgggtatga acagcagcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtcggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 179  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 179

```

gctccactc catgaggtat ttctccacat ccgtgtccc gcccggcagt ggagagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180
accaggagac acggaatgtg aaggccact cacagactga ccgagagaac ctggggaccc 240
tgcgggcta ctacaaccag agcgaggccg gttctcacac catccagata atgcatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcttgac gcggcgccgac atggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtcggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgctgcagc 540
gcacggaccc cccaagaca catatgacc accacccat ctctgacct gaggccacc 600
tgaggtgctg ggcctgggc ttctacctg cggagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcagg gatggaacct 720
tccagaagtg ggcggctgtg gtgtgcctt ctggagagga gcagagatac acctgccatg 780
tgcagcatga ggtctgccc aagccctca cctgagatg gg 822

```

&lt;210&gt; 180

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 180gctccactc catgaggtat ttctccacat ccgtgtccc gcccggcagt ggagagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gattattggg 180
accaggagac acggaatgtg aaggccact cacagactga ccgagtgac ctggggaccc 240
tgcgggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcttgac gcggcgccgac atggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtcggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 181

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 181

```

gctccactc catgaggtat ttctccacat ccgtgtccc gcccggccc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180
accaggagac acggaatgtg aaggccact cacagactga ccgagagaac ctggggaccc 240
tgcgggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcttgac gcggcgccgac atggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtcggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgctgcagc 540
gcacggaccc cccaagaca catatgacc accacccat ctctgacct gaggccacc 600
tgaggtgctg ggcctgggc ttctacctg cggagatcac actgacctg cagcgggatg 660
gggaggacca gaccaggac acggagctcg tggagaccag gcctgcagg gatggaacct 720
tccagaagtg ggcggctgtg gtgtgcctt ctggagagga gcagagatac acctgccatg 780
tgcagcatga ggtctgccc aagccctca cctgagatg gg 822

```

&lt;210&gt; 182

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 182

atggccgtca tggcgccccg aacctctctc ctgctactct tgggggccct ggcctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttcacca catccgtgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagagg 240  
 cctgagtatt gggaccagga gacacggaat gtgaaggccc actcacagat tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggtcggac gggcgcttc tccgcgggta ccagcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540  
 agagcctacc tggaggcgac gtgcgtggag tggtccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acgcatatga ctaccacgc tgtctctgac 660  
 catgaggcca cctgagtg ctgggcctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtggcgctct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctc ccaagcccc tcacctgag atgggag 897

&lt;210&gt; 183

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 183

gctccactc catgaggtat ttcaccacat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180  
 accaggagac acggaagtgt aaggccact cacagattga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgc tacgacggca 360  
 aggattacat gccttgaac gaggacctgc gctctggac cgcggcggac atggcggtc 420  
 agatcaccca gcgaagtgg gaggcgccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

&lt;210&gt; 184

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 184

gctccactc catgaggtat ttcaccacat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180  
 accaggagac acggaagtgt aaggccact cacagattga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgt tacgacggca 360  
 aggattacat gccttgaac gaggacctgc gctctggac cgcggcggac atggcggtc 420  
 agatcaccca gcgaagtgg gaggcgccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

&lt;210&gt; 185

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 185

atggccgtca tggcgccccg aacctctctc ctgctactct tgggggccct ggcctgacc 60

cagacctggg cggtctcca ctccatgagg tatttcacca catccgtgtc ccggcccggc 120  
 cgccggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcgc cgtggataga gcaggagagg 240  
 cctgagtatt gggaccagga gacacggaat gtgaaggccc actcacagat tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 ataattgatg gctgcgacgt ggggtcggac gggcgcttc tccggggta ccggcaggac 420  
 gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctacatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacagga ccccccaag acgcatatga ctaccacgc tgtcttgac 660  
 catgaggcca cctgaggtg ctgggcctg agcttctacc ctgggagat cactactgac 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtgggcgtct gtgtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctc ccaagcccc tcacctgag atgggag 897

<210> 186  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens  
 <400> 186

gctcccactc catgaggtat ttaccacat ccgtgtccc gcccgccgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180  
 accaggagac acggaatgtg aaggccact cacagattga ccgagtgac ctggggacc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggattacat cgccttgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggacggg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 187  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 187  
 gctcccactc catgaggtat ttaccacat ccgtgtccc gcccgccgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180  
 accaggagac acggaatgtg aaggccact cacagattga ccgagtgac ctggggacc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccttgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 188  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 188  
 gctcccactc catgaggtat ttaccacat ccgtgtccc gcccgccgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180

accaggagac acggaaagtg aaggcccact cacagactga ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggattacat cgcttgaac gaggacctgc gctcttgac cgcgcgga atggcggtc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 189  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 189  
 gctccactc catgaggtat ttaccacat cegtgtccg gccggccgc ggggagcccc 60  
 gttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgcctt ggatagagca ggaggggccc gattattggg 180  
 acgaggagac agggaaagtg aaggcccact cacagactga ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggattacat cgcttgaac gaggacctgc gctcttgac cgcgcgga atggcggtc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 190<211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 190  
 gctccactc catgaggtat ttaccacat cegtgtccg gccggccgc ggggagcccc 60  
 gttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgcctt ggatagagca ggagaggcct gattattggg 180  
 accaggagac acggaatgtg aaggcccact cacagattga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggattacat cgcttgaac gaggacctgc gctcttgac cgcgcgga atggcggtc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 191  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 191  
 atggcgtca tgggccccg aacctctc ctgtactct tgggggccct ggcctgacc 60  
 cagacctggg cgggtccca ctccatgagg tattttctca catccgtgc cggcccgcc 120  
 cggggggagc cccgttcat cgccgtggg tacgtggacg acacgcagtt cgtgcggtt 180  
 gacagcgagc ccgcgagcca gaggatggag ccgccccgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagag 300  
 agctgcgga tgcgctccg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggcccggac gggcgctcc tccgcggtta ccagcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcgcg 480  
 gacatggcgg ctacagatcac ccagcgcaag tgggagggcg cccgtgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600

gagacgtgc agcgacgga ccccccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca ccctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 192  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 192  
 atggccgtca tggcgcccc aacctctc ctgctactct tgggggccct ggcctgacc 60  
 cagacctggg cgggctcca ctcatgagg tatttcttca catccgtgtc ccggcccgcc 120  
 cgcggggagc ccgcttcat cgccgtgggc tacgtggagc acacgcagtt cgtgcggtt 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagag 300  
 agcctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggcgggac gggcgctcc tccgcgggta ccagcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcagatcac ccagcgcaag tgggagggcg ccatgtggc ggagcagcag 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca ccctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 193  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 193  
 gctcccactc catgaggtat ttcttccat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatgc cgtgggctac gtggacgaca cgcagttcgt gcggtttgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gaggattggg 180  
 accaggagac acggaatgtg aaggccact cacagactga ccgagagAAC ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggattacat cgccttgaac gaggacctgc gctcttgac cgcggcgagc atggcggtc 420  
 agatcaccca gcgcaagtgg gagcgggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 194  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 194  
 gctcccactc catgaggtat ttcttccat ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gaggattggg 180  
 accaggagac acggaatgtg aaggccact cacagactga ccgagagagc ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgctctctcc gcgggtaccg gcaggacgcc tacgacggca 360

aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcaccaa ggcgaagtgg gaggcgcccc atgaggcgga gcagttgaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 195  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 195  
 atggcgtca tggcgccccg aacctctctc ctgtactct tgggggcctt ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tattttctca catccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgcctggggc tacgtggacg acacgcagtt cgtgcggttt 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacagggaaa gtgaaggccc actcacagac tgaccgagag 300  
 agcctgcgga tcgcgtccg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt gggcgccgac gggcgctcc tccgcgggta ccagcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcatgac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggtccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcctccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggcctg agcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtggcgctct gtggtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atggggag 897

<210> 196  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 196  
 gctccactc catgaggtat ttctccat cctgtcccc gcccgccgc ggggagcccc 60  
 gcttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggtttgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gattattggg 180  
 accaggagac acggaatgtg aaggccact cacagactga ccgagagagc ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctctcc cggggtacca gcaggacgcc tacgacggca 360  
 aggtattcat cgccttgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
 agatcaccaa ggcgaagtgg gaggcgcccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 197  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 197  
 gctccactc catgaggtat ttctccat cctgtcccc gcccgccgc ggggagcccc 60  
 gcttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggtttgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gattattggg 180  
 accaggagac acggaatgtg aaggccact cacagactga ccgagagagc ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctctcc cggggtacca gcaggacgcc tacgacggca 360  
 aggtattcat cgccttgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 198  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 198  
 atggccgtca tggcgccccg aacctctctc ctgtactct tgggggccc tggccctgacc 60  
 cagacctggg cgggtccca ctccatgagg tatttcacca catccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacggaat gtgaaggccc actcacagat tgaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggtcggac gggcgttcc tccgcgggta ccagcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cccccagg acgcatatga ctaccacgc tgtcttgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcgtct gtgtgtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctc cccaagccc tcacctgag atggggag 897

<210> 199  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 199  
 atggccgtca tggcgccccg aacctctctc ctgtactct tgggggccc tggccctgacc 60  
 cagacctggg cgggtccca ctccatgagg tatttcacca catccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacggaat gtgaaggccc actcacagat tgaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggtcggac gggcgttcc tccgcgggta ccagcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acgcatatga ctaccacgc tgtcttgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcgtct gtgtgtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctc cccaagccc tcacctgag atggggag 897

<210> 200  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 200  
 gctccactc catgaggtat ttaccacat ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagaca ggaggggccg gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagattga ccgagtgac ctggggacc 240



tgcgcggcta ctacaaccag agcagggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggtattacat cgccttgaac gaggacctga gctcctggac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcage 540  
 gcacgg 546

<210> 201  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 201  
 gctccactc catgaggtat ttaccacat ccgtgtccc gcccggccc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagcg ggagggggccg gattattggg 180  
 accggaacac acggaatgtg aaggcccact cacagattga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcagggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggtattacat cgccttgaac gaggacctgc gctcctggac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcage 540  
 gcacgg 546

<210> 202  
 <211> 739  
 <212> DNA  
 <213> Homo sapiens

<400> 202  
 gctccactc catgaggtat ttaccacat ccgtgtccc gcccggccc ggggagcccc 60  
 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatggagca ggagggggccg gattattggg 180  
 accggaacac acggaatgtg aaggcccact cacagattga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcagggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggtattacat cgccttgaac gaggacctgc gctcctggac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcage 540  
 gcacggaccc cccaagacg catatgactc accacgtgt ctctgacct gaggecacc 600  
 tgaggtgtg ggcctgagc ttctacctg cggagatcac actgacctg cagcgggatg 660  
 gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720  
 tccagaagtg ggcgtctgt 739

<210> 203  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 203  
 atggccatca tgggcceccg aaccctcgtc ctgctactct cgggggccct ggccctgacc 60  
 cagacctggg cgggtccca ctccatgagg tattttctaca cctccgtgtc ccggcccggc 120  
 cgcgggggagc cccgttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaaa gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggcgggac gggcgcttcc tccgcggtta ccagcaggac 420  
 gcttacgacg gcaaggatta catgccttg aacaggagac tgcgtcttg gaccgcggcg 480

gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgagggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgcccaag acacatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 204  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 204  
 atggccgtca tggcgcccc aacctcgtc ctgctactct cgggggccct ggcctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca cctcgtgtc cggccccgc 120  
 cgcgggggag cgcgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagacgagg acggttctca caccatccag 360  
 ataattgatg gctgcgacgt ggggtcggac ggcgcgttc tccgcgggta ccggcaggac 420  
 gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgagggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgcccaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 205  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 205  
 gctcccactc catgaggtat ttctacacct cgtgtcccc gccggccgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctctcc gcgggtaccg gcaggacgct tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc atgaggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 206  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 206  
 gctcccactc catgaggtat ttctacacct cgtgtcccc gccggccgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240

tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc ggggtaccg gcaggacgt tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 207  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 207  
 gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gttcatcgc cgtgggttac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accggaacac acggaagtg aagggccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc ggggtacca gcaggacgt tacgacggca 360  
 aggattacat ctccctgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 208  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 208  
 atggccgtca tggcgcccc aacctctctc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggtcccca ctccatgagg tattttctca catccgtgc cggccccgc 120  
 cgcggggagc cccgttcat cgcgtgggc tacgtggac acacgcagtt cgtgcggtc 180  
 gacagcgac cgcgagcca gaagatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccgagttatt gggaccagga gacacggaat atgaaggccc actcacagac tgaccgagc 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 ataattgatg gctgcagct ggggcggac gggcgcttc tccgcggga ccggcaggac 420  
 gcctacgac gtaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggc 480  
 gacatggcag ctcatctac caagcgaag tgggaggcgg tccatgcgc ggagcagcg 540  
 agagtctacc tggagggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tctggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggct gtggtgtgc cttctggaga ggagcagaga 840  
 tacacctgc atgtgcagca tgagggtctg ccaagcccc tcacctgag atgggag 897

<210> 209  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 209  
 gctccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gttcatcgc cgtgggttac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagaa gatggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accaggagac acggaatatg aagggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagata atgtatggct 300

gcgacgtggg gccggacggg cgcttctcc ggggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcagtc 420  
 agatcaccaa gcgcaagtgg gaggcggtcc atgcggcgga gcagcggaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 210<211> 897

<212> DNA

<213> Homo sapiens

<400> 210

atggccgtca tggcgccccg aacctctc ctgtactct cgggggcctt ggccctgacc 60  
 cagacctggg cgggtccca ctccatgagg tattttctca catccgtgtc ccggcccggc 120  
 cgcgggggagc cccgttcat gcctgtggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaagatggag ccgcggcgcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat atgaaggccc actcacagac tgaccgagcg 300  
 aacctgggga cctgcggcg ctactacaac cagagcgagg acggttctca caccctccag 360  
 atgatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctcatgac caagcgaag tgggaggcgg tccatgcggc ggagcagcgg 540  
 agagtctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg gcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggct gtggtgtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 211

<211> 546

<212> DNA

<213> Homo sapiens

<400> 211

gtcccactc catgaggtat ttcttccat ccgtgtccc gccggccgc ggggagcccc 60  
 gttcatcgc cgtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgcgc 120  
 cgagccagaa gatggagccg cgggcgccgt gcatagagca ggaggggccc gagtattggg 180  
 accaggagac acggaatatg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catcagata atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc ggggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcggac atggcagtc 420  
 agatcaccaa gcgcaagtgg gaggcggtcc atgcggcgga gcagcggaga gtctacctgg 480  
 agggccgggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcacgg 546

<210> 212

<211> 897

<212> DNA

<213> Homo sapiens

<400> 212

atggccgtca tggcgccccg aacctctc ctgtactct cgggggcctt ggccctgacc 60  
 cagacctggg cgggtccca ctccatgagg tattttctca cctccgtgtc ccggcccggc 120  
 cgcgggggagc cccgttcat gcctgtggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gcagcgcagc ccgcgagcca gaggatggag ccgcggcgcg cgtggataga gcaggagggg 240  
 ccggagtatt gggacctgca gacacggaat gtgaaggccc actcacagac tgaccgagcg 300  
 aacctgggga cctgcggcg ctactacaac cagagcgagg acggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta ccagcaggac 420

gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg gaccgcggcg 480  
gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtgg 540  
agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgtgc agcgacagga cgccccaag acgcatatga ctcaccacgc tgtctctgac 660  
catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
ggggatggga ccttcagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag atggggag 897

<210> 213  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 213  
atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct ggccctgacc 60  
cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc cggccccg 120  
cgcggggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
gacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta ccagcaggac 420  
gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg gaccgcggcg 480  
gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtgg 540  
agagcctacc tggagggcgg gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgtgc agcgacagga cgccccaag acgcatatga ctcaccacgc tgtctctgac 660  
catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
ggggatggga ccttcagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag atggggag 897

<210> 214  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 214  
atggccgtca tggcgccccg aaccctcgtc ctgctactct cgggggccct ggccctgacc 60  
cagacctggg cgggctccca ctccatgagg tattttctaca cctccgtgtc cggccccg 120  
cgcggggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
aggatgtatg gctgcgacgt ggggccggac gggcgcttcc tccgcgggta ccagcaggac 420  
gcttacgacg gcaaggatta catcgccctg aacgaggacc tgcgctcttg gaccgcggcg 480  
gacatggcgg ctcagatcac ccagcgcaag tgggagacgg cccatgaggc ggagcagtgg 540  
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgtgc agcgacagga cgccccaag acgcatatga ctcaccacgc tgtctctgac 660  
catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
ggggatggaa ccttcagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcaccctgag atggggag 897

<210> 215  
<211> 546  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 215

```

gctcccactc catgaggtat ttctacacct cgtgtcccc gcccgccgc ggggagcccc 60
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg gagtattggg 180
accggaacac acggaatgtg aaggccact cacagactga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagagg atgtatggct 300
gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgt tacgacggca 360
aggattacat gcacctgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420
agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 216

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 216

```

gctcccactc catgaggtat ttctacacct cgtgtcccc gcccgccgc ggggagcccc 60
gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg gagtattggg 180
accggaacac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300
gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgt tacgacggca 360
aggattacat gcacctgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420
agatcaccca gcgcaagtgg gagacggccc atgaggcgga gcagtggaga gcctacctgg 480
agggcggtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

```

&lt;210&gt; 217

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 217

```

atggccgtca tggcgcccc aacctcgtc ctgtactct cgggggccct ggccctgacc 60
cagacctggg cgggctcca ctccatgagg tatttctaca ctccgtgtc ccggcccgc 120
cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggtt 180
gacagcgacg ccgcagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccgga cacacggaat gtgaaggccc agtcacagac tgaccgagt 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
atgatgtatg gctgcgacgt ggggtcggac gggcgcttc tccggggta ccggcaggac 420
gcctacgacg gcaaggatta catgcacctg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctacagacc caagcacaag tgggaggcgg ccatgtggc ggagcagtgg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgacgga cgcacccaaa acgcatatga ctaccacgc tgtctctgac 660
catgaagcca cctgaggtg ctgggcctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa ccttcagaa gtgggtggct gtggtgtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atggggag 897

```

&lt;210&gt; 218

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 218

atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca ctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagtgg 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgccaaa acgcatatga ctcaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtgggtggct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atggggag 897

<210> 219  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 219  
 atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca ctccatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 aggatgtatg gctgcgacgt ggggcgggac gggcgcttcc tccgcgggta ccaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagtgg 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgccaaa acgcatatga ctcaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtgggtggct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atggggag 897

<210> 220  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 220  
 atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca ctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagtgg 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga cgcgccaaa acgcatatga ctcaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtgggtggct gtggtggtgc cttctggaca ggagcagaga 840

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag atgggag 897

<210> 221  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 221  
 gctctcactc catgaggtat ttctacactt cegtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggcccact cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 222  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 222  
 gctccactc catgaggtat ttctacactt cegtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggcccact cacagattga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 223  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 223  
 gctccactc catgaggtat ttctacactt cegtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggcccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 224  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens



&lt;400&gt; 224

```

gctcccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcgc 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg gagtattggg 180
accggaacac acggaatgtg aaggccagc cagagactga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 225

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 225

```

gctcccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcgc 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg gagtattggg 180
accggaacac acggaatgtg aaggccagc cagagactga ccgagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcagcacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 226

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 226

```

atggccgtca tggcgcctcg aacctcgtc ctgtactct cggggggcct ggccctgacc 60
cagacctggg cgggctccca ctccatgagg tatttttaca cctccgtgtc ccggcccggc 120
cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagtg 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
atgatgtatg gctgcgacgt ggggtcggac gggcgcttc tccgcgggta ccgacaggac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480
gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagctg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtcgc agcgacgga cgcgccaaa acgcatatga ctaccacgc tgtctctgac 660
catgaagcca cctgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa ccttcagaa gtgggtggtg gtgggtgtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

```

&lt;210&gt; 227

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 227

```

gctcccactc catgaggtat ttctacaatt cegtgtcccg gcccgccgc ggggagcccc 60
gcttcategc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acggaatgtg aaggccagc cagactga cagagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtccgacggg cgttctctcc gcgggtaccg gcaggacgc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac gcggcggac atggcagctc 420
agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 228

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 228

```

gctcccactc catgaggtat ttctacacct cegtgtcccg gcccgccgc ggggagcccc 60
gcttcategc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
acgaggagac acggaatgtg aaggccagc cagactga cagagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtccgacggg cgttctctcc gcgggtaccg gcaggacgc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac gcggcggac atggcagctc 420
agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 229

&lt;211&gt; 579

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 229

```

acctcgtcc tgctactctc gggggccctg gccctgacct agacctgggc gggctccac 60
tccatgaggt attttacac ttccgtgtcc cggcccgcc gcggggagcc ccgttcac 120
gccgtgggct acgtggacga cagcagttc gtgcggttcg acagcgacgc cgcgagccag 180
aggatggagc cgcgggcgcc gtggatagag caggaggggc cggagtattg ggaccggaac 240
acacggaatg tgaaggccca gtcacagact gaccgagtgg acctggggac cctgcgcgc 300
tactacaacc agagcgaggc cgtttctcac accatccaga tgatgtatgg ctgcgacgtg 360
gggtcggacg ggcgttctc cgcgggtac cggcaggacg cctacgacgg caaggattac 420
atgcctga aagaggacct gcgtcttg accgcggcgg acatggcagc tcagatcacc 480
aagcacaagt gggagggcgc ccatgtggcg gacagtgga gacacctc ggagggcacg 540
tgcgtggagt ggctccgacg atacctggag aacgggaag 579

```

&lt;210&gt; 230

&lt;211&gt; 866

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 230

```

atggccgtca tggcggccg aacctcgtc ctgctactct cgggggcct gccctgacc 60
cagacctggg cgggctccca ctccatgagg tattttaca cctccgtgtc cggcccgcc 120
cgcggggagc cccgttcat gcctggggc tacgtggacg acacgcagtt cgtgcggtc 180
gcagcgacg ccgcgagcca gaggatggag ccgcggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggga gacacggaat gtgaaggccc agtcacagac tgaccgagt 300

```

gacctgggga ccttgcgcg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggaggcgg ccatgtggc ggagcagtgg 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgacgga cgccccaaa acgcatatga ctcaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggtggct gtgggtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgaggg 866

<210> 231  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 231  
 gctcccactc catgaggtat ttctacacct cctgtcccg gccggccgc ggggagcccc 60  
 gcttcatcgc cgtgggttac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccctg ggatagagca ggaggggccc gagtattggg 180  
 acgaggagac acggaatgtg aaggccactg cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcggg 546

<210> 232  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 232  
 gctcccactc catgaggtat ttctacacct ccatgtcccg gccggccgc ggggagcccc 60  
 gcttcatcgc cgtgggttac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccctg ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccactg cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgttctctcc gcgggtacca ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 233  
 <211> 615  
 <212> DNA  
 <213> Homo sapiens

<400> 233  
 ccgtcatggc gccccaacc ctctctctgc tactctcggg ggccctggcc ctgaccaga 60  
 cctgggcccgc ctccactcc atgaggtatt tctacacttc cgtgtcccg cccggccgcg 120  
 gggagccccg cttcatcgcc gtgggctacg tggacgacac gcagttcgtg cgttctgaca 180  
 gcgacgccgc gagccagagg atggagccgc gggcgccgtg gatagagcag gaggggcccg 240  
 agtattggga ccggaacaca cggaaatgtga aggccagtc acagactgac cgagtggacc 300  
 tggggaccct gcgcggctac tacaaccaga gcgaggcccg ttctcacacc atccagatga 360

tgtatggctg cgacgtgggg tgggacgggc gcttctccg cgggtaccgg caggacgcct 420  
 acgacggcaa ggattacatc gccctgaaag aggacctgcg ctcttgacc gcggcggaca 480  
 tggcagctca gaccaccaag cacaagtggg aggcggccct tgtggcggag cagtggagag 540  
 cctacctgga gggcacgtgc gtggagtggc tccgcagata cctggagaac gggaaggaga 600  
 cgctgcagcg cacgg 615

<210> 234  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 234  
 atggccgtca tggcgccccg aacctcgtc ctgctactct cgggggacct ggccctgacc 60  
 cagacctggg cgggctccca ctccatgagg tatttctaca ctccgtgtc ccggccccgc 120  
 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtat gctgcgactg ggggtcggac gggcgcttcc tccgcgggta ccggcaggtc 420  
 gcctacgacg gcaaggatta catgcacctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagccac caagcacaag tgggaggcgg cccatgtggc ggagcagtgg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgctgc agcgacagga cggcccaaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggacctg agcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtgggtggct gtggtggtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 235  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 235  
 gctcccactc catgaggtat ttctacactt ccgtgtcccg gcccgggcgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcgc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccact cagagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat gccctgaaa gaggacctgc gctcttgac ccggcgggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 236  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 236  
 gctcccactc catgaggtat ttctacactt ccgtgtcccg gcccgggcgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcgc 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccact cagagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cacttctcc gcgggtaccg gcaggacgcc tacgacggca 360

aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420  
 agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 237  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 237  
 gctcccactc catgaggtat ttctacatt cgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420  
 agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 238  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 238  
 atggccgtca tggcgcccc aacctcgtc ctgctactct cgggggccct ggcctgacc 60  
 cagacctggg cgggctccca ctccatgagg tattttaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccgagtgatt gggaccgga cacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga cctgcacgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcggtta ccggcaggac 420  
 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagacc caagcacaag tgggaggcgg ccatgtggc ggagcagtgg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacttga gaacgggaag 600  
 gagacgtcgc agcgacgga cggcccaaaa acgcatatga ctaccacgc tgtctctgac 660  
 catgaagcca cctgaggtg ctgggcctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatgaa cctccagaa gtgggtggct gtggtgtgc cttctggaca ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggttg ccaagcccc tcacctgag atgggag 897

<210> 239  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens  
 <400> 239

gctcccactc catgaggtat ttctacatt cgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatcgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgccctgaaa gaggacctgc gctcttgac cgcgccggac atggcagctc 420  
 agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagtggaga gcctacctgg 480

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcacgg 546

<210> 240  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 240atggccgtca tggcgccccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60  
cagacctggg cgggtccca ctccatgagg tattttctaca ctccgtgtc ccggcccggc 120  
cgcggggagc cccgttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccgga caccggaat gtgaaggccc agtcacagac tgaccgagtg 300  
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggtttctca caccgtccag 360  
aggatgtatg gtcgcacgt ggggtcggac tggcgcttc tccgcggtta ccaccgtac 420  
gcctacgacg gcaaggatta catgccttg aaagaggacc tgcgtcttg gaccgcggcg 480  
gacatggcag ctacagacc caagcacaag tgggagggcg ccatgtggc ggagcagttg 540  
agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
gagacgtgc agcgacgga cggcccaaa acgcatatga ctcaccacg tgtctctgac 660  
catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
ggggatggaa ccttcagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 241  
<211> 897  
<212> DNA  
<213> Homo sapiens

<400> 241  
atggccgtca tggcgccccg aacctcctc ctgtactct tgggggccct ggccctgacc 60  
cagaccaggg cgggtccca ctccatgagg tattttctca catccgtgtc ccggcccggc 120  
cgcggggagc cccgttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttt 180  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagtg 300  
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggtttctca caccatccag 360  
atgatgtatg gtcgcacgt ggggcgggac gggcgcttc tccgcggtta ccagcaggac 420  
gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
gacatggcgg ctacatcac ccagcgcaag tgggagggcg cccgtgtggc ggagcagttg 540  
agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
gagacgtgc agcgacgga cggcccaag acgcatatga ctcaccacg tgtctctgac 660  
catgaggcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
ggggatggaa ccttcagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

<210> 242  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 242  
atggccgtca tggcgccccg aacctcctc ctgtactct tgggggccct ggccctgacc 60  
cagacctggg cgggtccca ctccatgagg tattttctca catccgtgtc ccggcccggc 120  
cgcggggagc cccgttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttt 180  
gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagtg 300

gacctgggga ccctgcgcg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggcccggac gggcgctccc tccgcgggta ccagcaggac 420  
 gcctacgacg gcaaggatta catcgcttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgacgg 619

<210> 243  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 243  
 atggccgtca tggcgcccc aacctcctc ctgctactct tgggggcctt ggccctgacc 60  
 cagaccaggg cgggctccca ctccatgagg tattttctca catccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttt 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagt 300  
 gacctggcga ccctgcgcg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggcccggac gggcgctccc tccgcgggta ccagcaggac 420  
 gcctacgacg gcaaggatta catcgcttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgacgg 619

<210> 244  
 <211> 547  
 <212> DNA  
 <213> Homo sapiens

<400> 244  
 ggctcccact ccatgaggta tttcttcaca tccgtgtccc ggcccggccg cggggagccc 60  
 cgcttcatcg ccgtgggcta cgtggacgac acgcagttcg tgcggttga cagcgacgcc 120  
 gcgagccaga ggatggagcc gcgggcgccc tggatagagc aggagggtcc ggagtattgg 180  
 gacggggaga cagggaaagt gaaggccac tcacagactg accgagtga cctggggacc 240  
 ctgcgcggct actacaacca gagcgaggcc gttctcaca ccatccagat gatgtatggc 300  
 tgcgacgtgg ggccggacgg gcgctcctc cgcggttacc agcaggacgc ctacgacggc 360  
 aaggattaca tcgcttgaa cgaggacctg cgctcttga ccgcggcgga catggcggct 420  
 cagatcaccc agcgcaagtg ggaggcgccc cgtgtggcgg agcagttgag agcctacctg 480  
 gagggcacgt gcgtggagtg gctccgaga tacctggaga acgggaagga gacgtgcag 540  
 cgcacgg 547

<210> 245  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 245  
 gctcccactc catgaggat tttctcacat ccgtgtccc ggccggccgc ggggagcccc 60  
 gcttcatcgc cgtgggtac gtggacgaca cgagttcgt gcggttgac agcgacgcc 120  
 cgagccagag gatggagccg cgggcgccc ggatagagca ggaggggccc gagtattggg 180  
 accaggagac acggaatgt aaggccact cacaggctga ccgagtggac ctggggaccc 240  
 tgcgggcta ctacaaccag agcgaggccc gttctcacac catccagat atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggattacat cgcttgaac gaggacctg gctcttggac cgcgcgga atggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgtgcagc 540

gcacgg

546

<210> 246  
<211> 545  
<212> DNA  
<213> Homo sapiens

<400> 246  
gctccactc catgaggtat ttcttcacat cegtgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttgac agcgacgcc 120  
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accaggagac acggaatgtg aaggccact cacagactca ccgagtggac ctggggaccc 240  
tgccgggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
gcgacgtggg gccggacggg cgcctctcc gcgggtacca gcaggacgcc tacgacggca 360  
aggattacat cgccttgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacg 545

<210> 247  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 247  
gctccactc catgaggtat ttcttcacat cegtgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttgac agcgacgcc 120  
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accaggagac acggaatgtg aaggccact cacagattga ccgagtggac ctggggaccc 240  
tgccgggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
gcgacgtggg gccggacggg cgcctctcc gcgggtacca gcaggacgcc tacgacggca 360  
aggattacat cgccttgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

<210> 248  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 248  
gctccactc catgaggtat ttcttcacat cegtgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttgac agcgacgcc 120  
cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accaggagac acggaatgtg aaggccact cacagactga ccgagtggac ctggggaccc 240  
tgccgggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
gcgacgtggg gccggacggg cgcctctcc gcgggtacca gcaggacgcc tacgacggca 360  
aggattacat cgccttgaac gaggacctgc gctcttgac cgcggcggac atggcggtc 420  
agatcaccca gcgaagtgg gaggcggcca gtgtggcgga gcagttgaga gcctacctg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcacgg 546

<210> 249  
<211> 546  
<212> DNA  
<213> Homo sapiens



&lt;400&gt; 249

gctccactc catgaggtat ttcttcacat ccgtgtcccc gcccgccgc ggggagcccc 60  
 gcttcacgc cgtgggtac gtggacgaca cgcagttcgt gcggtttgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accaggagac acggaatgtg aaggcccact cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gccggacggg gcctcctcc gcgggtacca gcaggacgcc tacgacggca 360  
 aggattacat gccttgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

&lt;210&gt; 250

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 250

atggccgtca tgcgccccg aacctcctc ctgtactct cgggggccct ggccctgacc 60  
 cagacctggg caggctccca ctccatgagg tattttctca catccgtgtc ccggcccggc 120  
 cgcgggggagc cccgttcat cgcagtgggc tacgtggacg actcgagtt cgtgcagttc 180  
 gcacgcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggaggag 240  
 ccggagtatt gggacgagga gacacggaat gtgaaggccc actcacagac taaccgagcg 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg acggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcatatcac caagcgcaag tgggaggcgg cccgtcgggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggac gggctccga gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga ccccccaag acacatatga cccaccacc catctctgac 660  
 catgaggcca ctctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa ccttcagaa gtgggcggct gtggtgttac ctctggaaa ggagaagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccgagcccc tcacctgag atgggag 897

&lt;210&gt; 251

&lt;211&gt; 16

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 251

gccccgttc atcgcc 16

&lt;210&gt; 252

&lt;211&gt; 19

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 252

gaccaggaga cacggaata 19

&lt;210&gt; 253

&lt;211&gt; 17

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 253

gcggagcagc ggagagt 17

<210> 254  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 254  
agtctacctg gagggcc 17

<210> 255  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 255  
gtctacctgg agggccg 17

<210> 256  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 256  
aggtgctggg ccctgg 16

<210> 257  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 257  
ggtggtgcct tctggag 17

<210> 258  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 258  
caccctgaga tgggagct 18

<210> 259  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 259  
ccctgagatg ggagctg 17

<210> 260  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 260  
ggacatggca gctcagatt

19

<210> 261  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 261  
cactccatga ggtatttctc

20

<210> 262  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 262  
ccggcccggc agtgga

16

<210> 263  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 263  
ttctcacacc atccagatg

19

<210> 264  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 264  
ccatgcggcg gagcagt

17

<210> 265  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 265  
catgcggcgg agcagtt

17

<210> 266  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 266  
atagagcagg agaggcct

18

<210> 267  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 267  
ctcacagact gaccgaga 18

<210> 268  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 268  
ctacaaccag agcgaggc 18

<210> 269  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 269  
gagtctacct ggagggct 18

<210> 270  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 270  
gtggacgaca cgcagtta 18

<210> 271  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 271  
tgctactctc gggggct 17

<210> 272  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 272  
ggcccactca cagactc 17

<210> 273  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 273  
ggccggttct cacaccg 17

<210> 274  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 274  
ttctcacacc gtccagag 18

<210> 275  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 275  
cgacgtgggg tcggact 17

<210> 276  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 276  
gggaggcggc ccatgt 16

<210> 277  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 277  
ccatgtggcg gagcagtt 18

<210> 278  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 278  
gcctacctgg agggcac 17

<210> 279  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 279  
gagctgtggt cgtgct 17

<210> 280  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 280  
agccccgctt catcgca

17

<210> 281  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 281  
ccggagtatt gggacgg

17

<210> 282  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 282  
gacggggaga cacggaaa  
<210> 283  
<211> 16  
<212> DNA  
<213> Homo sapiens

18

<400> 283  
cctccgcggg taccac

16

<210> 284  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 284  
ccgcgggtac caccagt

17

<210> 285  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 285  
ggattacatc gccctgaaa

19

<210> 286  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 286  
ggacatggca gctcagac

18

<210> 287  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 287  
gggcacgtgc gtggagt 17

<210> 288  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 288  
gccactcac agactcat 18

<210> 289  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 289  
tgcgctcttg gaccgca 17

<210> 290  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 290  
attacatcgc cctgaaagaa 20

<210> 291  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 291  
ggggtcggac tggcga 16

<210> 292  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 292  
tcccggcccg gccgt 15

<210> 293  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 293  
catgtgcagc atgagggtt 19

<210> 294  
<211> 18  
<212> DNA

<213> Homo sapiens  
<400> 294  
gaccagaccc aggacaca

18

<210> 295  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 295  
ccatgtggcg gagcagt

17

<210> 296  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 296  
cggactggcg cttcctg

17

<210> 297  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 297  
ccaagcaca gtgggaga

18

<210> 298  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 298  
tgggagacgg cccatga

17

<210> 299  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 299  
ccatgaggcg gagcagt

17

<210> 300  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 300  
ccatgaggtat tttctacacc

20

<210> 301  
<211> 18



<212> DNA  
<213> Homo sapiens

<400> 301  
cacgtccag aggatgtg 18

<210> 302  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 302  
gtggagacca ggcctga 17

<210> 303  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 303  
cacgtccag aggatgtt 18

<210> 304  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 304  
gaaggccac tcacagat 18

<210> 305  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 305  
catgtggcgg agcagca 17

<210> 306  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 306  
gggaggcggc ccatga 16

<210> 307  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 307  
catgaggcgg agcagca 17

<210> 308  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 308  
gcctacctgg agggcga

17

<210> 309  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 309  
acaccctcca gatgatgtt

19

<210> 310  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 310  
gaggtgctgg gcctga

17

<210> 311  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 311  
ggaccgcggc ggacaa

16

<210> 312  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 312  
cacagactca ccgagtgg

18

<210> 313  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 313  
cgcggcggac atggcg

16

<210> 314  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 314  
gtccggagta ttgggacg

18

<210> 315  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 315  
acggggagac acggaac

17

<210> 316  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 316  
cagtgggcta cgtggaca

18

<210> 317  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 317  
tgggagacgg cccatgt

17

<210> 318  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 318  
ccatgaggcg gagcagtt

18

<210> 319  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 319  
agctcagacc accaagca

18

<210> 320  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 320  
catgcggcgg agcagca

17

<210> 321  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 321  
cgtggataga gcaggaga 18

<210> 322  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 322  
gacggggaga cacggc 16

<210> 323  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 323  
ctgggcgggc tctcag 16

<210> 324  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 324  
tcgacagcga cgccgg 16

<210> 325  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 325  
caccgtccag aggatgtc 18

<210> 326  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 326  
cggaagtga aggcccag 18

<210> 327  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 327  
ggcccagtca cagactc 17

<210> 328  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 328  
ggctcagatc accaagca

18

<210> 329  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 329  
gcggagcagt tgagagc

17

<210> 330  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 330  
gggcacgtgc gtggag

16

<210> 331  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 331  
gtgggaggcg gcccg

15

<210> 332  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 332  
gggaggcggc ccgtgt

16

<210> 333  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 333  
ccgcgggtac cagcagt

17

<210> 334  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 334

ggagccccgc ttcattct

17

<210> 335

<211> 18

<212> DNA

<213> Homo sapiens

<400> 335

gaccaggaga cacggaaa

18

<210> 336

<211> 18

<212> DNA

<213> Homo sapiens

<400> 336

attgggacga ggagacag

18

<210> 337

<211> 18

<212> DNA

<213> Homo sapiens

<400> 337

gacgaggaga cagggaaa

18

<210> 338

<211> 18

<212> DNA

<213> Homo sapiens

<400> 338

gaaggccac tcacagag

18

<210> 339

<211> 20<212> DNA

<213> Homo sapiens

<400> 339

gaggtatttc ttcacatcca

20

<210> 340

<211> 18

<212> DNA

<213> Homo sapiens

<400> 340

ttctccgcg ggtatgaa

18

<210> 341

<211> 18

<212> DNA

<213> Homo sapiens

<400> 341  
gagtattggg accggaac

18

<210> 342  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 342  
cggaatgtga aggcccag

18

<210> 343  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 343  
ggccggttct cacaccc

17

<210> 344  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 344  
ttctcacacc ctccagag

18

<210> 345  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 345  
ccggcccggc cgcga

15

<210> 346  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 346  
cgcggtacc accagtt

17

<210> 347  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 347  
cacagactga ccgagtgg

18

<210> 348  
<211> 19  
<212> DNA

<213> Homo sapiens

<400> 348

gttgagagcc tacctggat

19

<210> 349

<211> 17

<212> DNA

<213> Homo sapiens

<400> 349

catgaggcgg agcagct

17

<210> 350

<211> 18

<212> DNA

<213> Homo sapiens

<400> 350

ctgagagcct acctggat

18

<210> 351

<211> 18

<212> DNA

<213> Homo sapiens

<400> 351

tggatagagc aggagggt

18

<210> 352

<211> 18

<212> DNA

<213> Homo sapiens

<400> 352

cagagagcct acctggat

18

<210> 353

<211> 17

<212> DNA

<213> Homo sapiens

<400> 353

ggcctggttc tccttgc

17

<210> 354

<211> 18

<212> DNA

<213> Homo sapiens

<400> 354

gagagcctac ctggatgc

18



<210> 355  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 355  
ggctgcgacg tggggt 16

<210> 356  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 356  
gggccggtgc gtggag 16

<210> 357  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 357  
ggccggtgcg tggagt 16

<210> 358  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 358  
gctcttgac cgcgga 17

<210> 359  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 359  
ggcccggccg cggga 15

<210> 360  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 360  
gggaggcggc ccgtga 16

<210> 361  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 361

cgtgaggcgg agcagca

17

<210> 362

<211> 17

<212> DNA

<213> Homo sapiens

<400> 362

ggcagctcag atcaccg

17

<210> 363

<211> 16

<212> DNA

<213> Homo sapiens

<400> 363

gccggacggg cgctta

16

<210> 364

<211> 17

<212> DNA

<213> Homo sapiens

<400> 364

gcagagagcc tacctgc

17

<210> 365

<211> 18

<212> DNA

<213> Homo sapiens

<400> 365

gccggagtat tgggacct

18

<210> 366

<211> 18

<212> DNA

<213> Homo sapiens

<400> 366

ggcagctcag atcaccag

18

<210> 367

<211> 15

<212> DNA

<213> Homo sapiens

<400> 367

ggaggcggcc cgtcg

15

<210> 368

<211> 18

<212> DNA

<213> Homo sapiens

<400> 368

acgaggagac agggaag

18

<210> 369

<211> 16

<212> DNA

<213> Homo sapiens

<400> 369

cccagccac cgtcca

16

<210> 370

<211> 17

<212> DNA

<213> Homo sapiens

<400> 370

ccgtgtggcg gagcagt

17

<210> 371

<211> 17

<212> DNA

<213> Homo sapiens

<400> 371

gcggagcagt ggagagc

17

<210> 372

<211> 19

<212> DNA

<213> Homo sapiens

<400> 372

ggcaaggatt acatgcct

19

<210> 373

<211> 17

<212> DNA

<213> Homo sapiens

<400> 373

cgtgtggcgg agcagtt

17

<210> 374

<211> 18

<212> DNA

<213> Homo sapiens

<400> 374

ctcccactcc atgaggtg

18

<210> 375  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 375  
cgctccgcta ctacaacg 18

<210> 376  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 376  
ctgcggatcg cgctcc 16

<210> 377  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 377  
gcggagcagc agagagc 17

<210> 378  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 378  
atcttcccag cccaccg 17

<210> 379  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 379  
ctgggcttct accctgca 18

<210> 380  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 380  
cgcggtacc accagtat 18

<210> 381  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 381

agacgctgca ggcact

17

<210> 382  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 382  
ggcggctcag atcaccc

17

<210> 383  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 383  
gggaaagtga aggcccag

18

<210> 384  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 384  
cctgggcagg ctcccaa

17

<210> 385  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 385  
gggcacgtgc gtggact

17

<210> 386  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 386  
gacgggcgct tcctcca

17

<210> 387  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 387  
ggaccgcggc ggacag

16

<210> 388  
<211> 18  
<212> DNA

<213> Homo sapiens

<400> 388

cggagtattg ggacgagc

18

<210> 389

<211> 18

<212> DNA

<213> Homo sapiens

<400> 389

acagactgac cgagagag

18

<210> 390

<211> 17

<212> DNA

<213> Homo sapiens

<400> 390

ccagaggatg gagccgt

17

<210> 391

<211> 18

<212> DNA

<213> Homo sapiens

<400> 391

gagccagagg atggagct

18

<210> 392

<211> 17

<212> DNA

<213> Homo sapiens

<400> 392

gctcccactc catgagc

17

<210> 393

<211> 16

<212> DNA

<213> Homo sapiens

<400> 393

gcctgcaggg gatggg

16

<210> 394

<211> 17

<212> DNA

<213> Homo sapiens

<400> 394

ccagcgcaag tgggaga

17

<210> 395  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 395  
ccgcgggtac cagcaga

17

<210> 396  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 396  
gcctacctgg agggcct

17

<210> 397  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 397  
tccgcgggta ccagcg

16

<210> 398  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 398  
ttcctccgcg ggtacca

17

<210> 399  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 399  
ggtaccagca ggacgct

17

<210> 400  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 400  
cgcagttcgt gcggttg

17

<210> 401  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 401

ccagagcgag gacggta

17

<210> 402

<211> 19

<212> DNA

<213> Homo sapiens

<400> 402

cagatgatgt atggctgcc

19

<210> 403

<211> 16

<212> DNA

<213> Homo sapiens

<400> 403

gatggagccg cgggca

16

<210> 404

<211> 17

<212> DNA

<213> Homo sapiens

<400> 404

ggacctgcag acacggc

17

<210> 405

<211> 16

<212> DNA

<213> Homo sapiens

<400> 405

gagacgtgc agcgcg

16

<210> 406

<211> 16

<212> DNA

<213> Homo sapiens

<400> 406

tgggaggcgg cccgtt

16

<210> 407

<211> 15

<212> DNA

<213> Homo sapiens

<400> 407

gggaggcggc ccgtc

15

<210> 408

<211> 17

<212> DNA



<213> Homo sapiens

<400> 408

gggctacgtg gacgacg

17

<210> 409

<211> 19

<212> DNA

<213> Homo sapiens

<400> 409

cacaccatcc agataatgc

19

<210> 410

<211> 18

<212> DNA

<213> Homo sapiens

<400> 410

gtgcagcatg aggtctc

18

<210> 411

<211> 17

<212> DNA

<213> Homo sapiens

<400> 411

ggtaccggca ggacgct

17

<210> 412

<211> 20<212> DNA

<213> Homo sapiens

<400> 412

ccactccatg aggtattca

20

<210> 413

<211> 18

<212> DNA

<213> Homo sapiens

<400> 413

gacacggaat gtgaagg

18

<210> 414

<211> 20<212> DNA

<213> Homo sapiens

<400> 414

cctagttctc ttggagcta

20

<210> 415

<211> 15

<212> DNA

<213> Homo sapiens

<400> 415  
ggccggacgg gcgcc

15

<210> 416  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 416  
gcctacctgg atggcac

17

<210> 417  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 417  
tggcacgtgc gtggagt

17

<210> 418  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 418  
gaccaggaga cagggaaa

18

<210> 419  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 419  
gcacggaccc cccag

16

<210> 420  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 420  
acgaggacct gagctcc

17

<210> 421  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 421  
gcgccgtgga tagagcg

17

<210> 422  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 422  
gcggggcgccg tggatg

16

<210> 423  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 423  
ccccatcgtg ggcattc

17

<210> 424  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 424  
ctgcagcgca cggacg

16

<210> 425  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 425  
ggacgcccc aagacg

16

<210> 426  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 426  
ctctttggag ctgtgatcg

19

<210> 427  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 427  
gacggcaagg attacatct

19

<210> 428  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 428  
gtctacctgg agggcac

17

<210> 429  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 429  
cggagagcct acctggat 18

<210> 430  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 430  
ggacggttct cacaccc 17

<210> 431  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 431  
gggcgagtgc gtggagt 17

<210> 432  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 432  
ggagtggctc cgagac 17

<210> 433  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 433  
gaacctcca gaagtgggt 19

<210> 434  
<211> 20<212> DNA  
<213> Homo sapiens

<400> 434  
ccatgaggta tttctacact 20

<210> 435  
<211> 20<212> DNA  
<213> Homo sapiens

<400> 435  
gaggtatttc tacacctcca 20

<210> 436  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 436  
cgcggtacc ggcagc

16

<210> 437  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 437  
catgtggcgg agcagct

17

<210> 438  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 438  
gccggagtat tgggacg

17

<210> 439  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 439  
agtgggaggc ggcct

16

<210> 440  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 440  
gcgggtaccg gcaggt

16

<210> 441  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 441  
tggagagcct acctggat

18

<210> 442  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 442

tggggtcgga cgggca

16

<210> 443  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 443  
gcagatacct ggagaacc

18

<210> 444  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 444  
gacctgggga ccctgca

17

<210> 445  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 445  
gttctcacac catccagag

19

<210> 446  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 446  
ggccctgacc cagacca

17

<210> 447  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 447  
cctcctcctg ctactctt

18

<210> 448  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 448  
ctcctccgcg ggtacca

17

<210> 449  
<211> 17  
<212> DNA

<213> Homo sapiens

<400> 449

gaccgagtgg acctggc

17

<210> 450

<211> 17

<212> DNA

<213> Homo sapiens

<400> 450

gaaggccac tcacagg

17

<210> 451

<211> 18

<212> DNA

<213> Homo sapiens

<400> 451

cacagattga ccgagtgg

18

<210> 452

<211> 17

<212> DNA

<213> Homo sapiens

<400> 452

caagtgggag gcggcca

17

<210> 453

<211> 18

<212> DNA

<213> Homo sapiens

<400> 453

cttcacatcc gtgtcccc

18

<210> 454

<211> 18

<212> DNA

<213> Homo sapiens

<400> 454

cagccacac tccccatt

18

<210> 455

<211> 18

<212> DNA

<213> Homo sapiens

<400> 455

cttcacgcc gtgggcta

18

<210> 456  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 456  
acacggaata tgaaggccc

19

<210> 457  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 457  
gcggagagtc tacctgg

17

<210> 458  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 458  
ggagggccgg tgcgtg

16

<210> 459  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 459  
ggagggccgg tgcgtg

16

<210> 460  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 460  
gggccctggg cttctac

17

<210> 461  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 461  
gtggtggtgc cttctgg

17

<210> 462  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 462



ccttctggag aggagcag

18

<210> 463  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 463  
agctcagatt accaagcgc

19

<210> 464  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 464  
ggtatttctc cacatccgt

19

<210> 465  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 465  
ggcagtggag agcccc

16

<210> 466  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 466  
catccagatg atgtatggc

19

<210> 467  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 467  
cggagcagtt gagagcc

17

<210> 468  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 468  
cggagcagtt gagagcct

18

<210> 469  
<211> 18  
<212> DNA

<213> Homo sapiens

<400> 469

ggagaggcct gattattg

18

<210> 470

<211> 18

<212> DNA

<213> Homo sapiens

<400> 470

ctgaccgaga gaacctgg

18

<210> 471

<211> 17

<212> DNA

<213> Homo sapiens

<400> 471

gagcgaggcc ggtctc

17

<210> 472

<211> 16

<212> DNA

<213> Homo sapiens

<400> 472

ggagggctgg tgcgtg

16

<210> 473

<211> 18

<212> DNA

<213> Homo sapiens

<400> 473

cacgcagtta gtgcggtt

18

<210> 474

<211> 16

<212> DNA

<213> Homo sapiens

<400> 474

tcgggggctc tggccc

16

<210> 475

<211> 18

<212> DNA

<213> Homo sapiens

<400> 475

gacacggaaa gtgaaggc

18

<210> 476  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 476  
tcacagactc accgagtg 18

<210> 477  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 477  
ctcacaccgt ccagagg 17

<210> 478  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 478  
ccgtccagag gatgtatg 18

<210> 479  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 479  
ggtcggactg gcgcttc 17

<210> 480  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 480  
ggcccatgtg gcggag 16

<210> 481  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 481  
ggagggcacg tgcgtg 16

<210> 482  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 482

catgagggtt tgcccaag

18

<210> 483

<211> 18

<212> DNA

<213> Homo sapiens

<400> 483

cttcacgcga gtgggcta

18

<210> 484

<211> 17

<212> DNA

<213> Homo sapiens

<400> 484

ttgggacggg gagacac

17

<210> 485

<211> 17

<212> DNA

<213> Homo sapiens

<400> 485

gggtaccacc agtacgc

17

<210> 486

<211> 18

<212> DNA

<213> Homo sapiens

<400> 486

taccaccagt acgcctac

18

<210> 487

<211> 18

<212> DNA

<213> Homo sapiens

<400> 487

cgccctgaaa gaggacct

18

<210> 488

<211> 18

<212> DNA

<213> Homo sapiens

<400> 488

cagctcagac caccaagc

18

<210> 489

<211> 16

<212> DNA

<213> Homo sapiens

<400> 489

cgtggagtgg ctccgc

16

<210> 490

<211> 19

<212> DNA

<213> Homo sapiens

<400> 490

acagactcat cgagtggac

19

<210> 491

<211> 17

<212> DNA

<213> Homo sapiens

<400> 491

tggaccgcag cggacat

17

<210> 492

<211> 18

<212> DNA

<213> Homo sapiens

<400> 492

cctgaaagaa gacctgcg

18

<210> 493

<211> 17

<212> DNA

<213> Homo sapiens

<400> 493

gactggcgat tcctccg

17

<210> 494

<211> 15

<212> DNA

<213> Homo sapiens

<400> 494

cccggccgtg gggag

15

<210> 495

<211> 18

<212> DNA

<213> Homo sapiens

<400> 495

ccaggacaca gagctcgt

18

<210> 496  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 496  
cgcttcctgc gcgggt

16

<210> 497  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 497  
agtgggagac ggcccat

17

<210> 498  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 498  
ggcccatgag gcggag

16

<210> 499  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 499  
cggagcagtg gagagcc

17

<210> 500  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 500  
tctcacaccg tccagatg

18

<210> 501  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 501  
tttctacacc tccgtgtcc

19

<210> 502  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 502

gaggatgtgt ggctgcg

17

<210> 503  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 503  
caggcctgaa ggggatg

17

<210> 504  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 504  
ccgtccagag gatgtttg

18

<210> 505  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 505  
agaggatgtt tggctgcg

18

<210> 506  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 506  
actcacagat tgaccgagt

19

<210> 507  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 507  
ggagcagcag agagcct

17

<210> 508  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 508  
ggagggcgag tgcgtg

16

<210> 509  
<211> 17  
<212> DNA

<213> Homo sapiens

<400> 509

gtcatggctc cccgaac

17

<210> 510

<211> 19

<212> DNA

<213> Homo sapiens

<400> 510

agatgatggtt tggctgcga

19

<210> 511

<211> 17

<212> DNA

<213> Homo sapiens

<400> 511

gggccctgag cttctac

17

<210> 512

<211> 17

<212> DNA

<213> Homo sapiens

<400> 512

ggcggacaag gcagctc

17

<210> 513

<211> 16

<212> DNA

<213> Homo sapiens

<400> 513

ccgagtggac ctggggg

16

<210> 514

<211> 18

<212> DNA

<213> Homo sapiens

<400> 514

ggacatggcg gctcagat

18

<210> 515

<211> 18

<212> DNA

<213> Homo sapiens

<400> 515

tattgggacg gggagaca

18



<210> 516  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 516  
gacacggaac gtgaaggc

18

<210> 517  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 517  
tacgtggaca acacgcag

18

<210> 518  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 518  
ccaccaagca caagtggg

18

<210> 519  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 519  
agcaggagag tccggag

17

<210> 520  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 520  
gagacacggc aagtgaag

18

<210> 521  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 521  
gggctctcag tccatgag

18

<210> 522  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 522

cgacgccggg agccag

16

<210> 523  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 523  
gaggatgtct ggctgcg

17

<210> 524  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 524  
gaaggcccag tcacagac

18

<210> 525  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 525  
tcaccaagca caagtggg

18

<210> 526  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 526  
agttgagagc ctacctgg

18

<210> 527  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 527  
tgcgtggagt ggctccg

17

<210> 528  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 528  
gcggcccgtg tggcg

15

<210> 529  
<211> 16  
<212> DNA

<213> Homo sapiens

<400> 529

ggcccgtgtg gcggag

16

<210> 530

<211> 18

<212> DNA

<213> Homo sapiens

<400> 530

taccagcagt acgcctac

18

<210> 531

<211> 18

<212> DNA

<213> Homo sapiens

<400> 531

cgcttcattc cagtgggc

18

<210> 532

<211> 18

<212> DNA

<213> Homo sapiens

<400> 532

gaggagacag ggaaagtg

18

<210> 533

<211> 18

<212> DNA

<213> Homo sapiens

<400> 533

gacagggaaa gtgaaggc

18

<210> 534

<211> 18

<212> DNA

<213> Homo sapiens

<400> 534

actcacagag tcaccgag

18

<210> 535

<211> 18

<212> DNA

<213> Homo sapiens

<400> 535

ttcacatcca tgtcccg

18

<210> 536  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 536  
cgggtatgaa cagcacgc 18

<210> 537  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 537  
ggaccggaac acacggaa 18

<210> 538  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 538  
tctcacaccc tccagatg 18

<210> 539  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 539  
ctcacaccct ccagagg 17

<210> 540  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 540  
ccctccagag gatgtatg 18

<210> 541  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 541  
ggccgcgagg agccc 15

<210> 542  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 542

ccaccagttc gcctacg

17

<210> 543

<211> 18

<212> DNA

<213> Homo sapiens

<400> 543

ctacctggat ggcacgtg

18

<210> 544

<211> 17

<212> DNA

<213> Homo sapiens

<400> 544

ggagcagctg agagcct

17

<210> 545

<211> 17

<212> DNA

<213> Homo sapiens

<400> 545

caggagggtc cggagta

17

<210> 546

<211> 18

<212> DNA

<213> Homo sapiens

<400> 546

ctggagaacc ggaaggag

18

<210> 547

<211> 17

<212> DNA

<213> Homo sapiens

<400> 547

cctggatgcc acgtgcg

17

<210> 548

<211> 16

<212> DNA

<213> Homo sapiens

<400> 548

cgtggggtcg gacggg

16

<210> 549

<211> 17

<212> DNA

<213> Homo sapiens

<400> 549

accgcggcag acatggc

17

<210> 550

<211> 15

<212> DNA

<213> Homo sapiens

<400> 550

ccgcgggaag ccccg

15

<210> 551

<211> 15

<212> DNA

<213> Homo sapiens

<400> 551

gcggcccgtg aggcg

15

<210> 552

<211> 16

<212> DNA

<213> Homo sapiens

<400> 552

ggcccgtgag gcggag

16

<210> 553

<211> 18

<212> DNA

<213> Homo sapiens

<400> 553

cagatcacgc agcgcaag

18

<210> 554

<211> 16

<212> DNA

<213> Homo sapiens

<400> 554

gggcgcttac tccgcg

16

<210> 555

<211> 16

<212> DNA

<213> Homo sapiens

<400> 555

ctacctgcag ggccgg

16

<210> 556  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 556  
attgggacct gcagacac 18

<210> 557  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 557  
agatcaccag gcgaagt 18

<210> 558  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 558  
gcccgtcggg cggag 15

<210> 559  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 559  
acagggaag tgaaggcc 18

<210> 560  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 560  
gaagtgggca gctgtggt 18

<210> 561  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 561  
gtggagagcc tacctgg 17

<210> 562  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 562

tacatcgctt tgaacgagg

19

<210> 563  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 563  
ccatgaggtg tttctccac

19

<210> 564  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 564  
tactacaacg agagcgagg

19

<210> 565  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 565  
tcgcgtccg ctactac

17

<210> 566  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 566  
gcagagagcc tacctgg

17

<210> 567  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 567  
ctaccctgca gagatcac

18

<210> 568  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 568  
ccaccagtat gcctacga

18

<210> 569  
<211> 18  
<212> DNA



<213> Homo sapiens

<400> 569

cagatcaccc agcgaag

18

<210> 570

<211> 18

<212> DNA

<213> Homo sapiens

<400> 570

aggctcccaa tccatgag

18

<210> 571

<211> 18

<212> DNA

<213> Homo sapiens

<400> 571

tgtggtggta cttctgg

18

<210> 572

<211> 17

<212> DNA

<213> Homo sapiens

<400> 572

cggagcagtg gagagtc

17

<210> 573

<211> 16

<212> DNA

<213> Homo sapiens

<400> 573

cgtggactgg ctccgc

16

<210> 574

<211> 17

<212> DNA

<213> Homo sapiens

<400> 574

cttctccac ggggtacc

17

<210> 575

<211> 16

<212> DNA

<213> Homo sapiens

<400> 575

ggcggacagg gcggct

16

<210> 576  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 576  
tcacagactc accgagag

18

<210> 577  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 577  
gggacgagca gacaggg

17

<210> 578  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 578  
ccgagagagc ctgcgg

16

<210> 579  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 579  
actcacagat tgaccgaga

19

<210> 580  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 580  
ggagccgtgg gcgcc

15

<210> 581  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 581  
gatggagctg cgggcg

16

<210> 582  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 582

ctccatgagc tatttctcc

19

<210> 583  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 583  
ggggatggga ccttcca

17

<210> 584  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 584  
ccttctggac aggagcag

18

<210> 585  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 585  
taccagcaga acgcttacg

19

<210> 586  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 586  
ggagggcctg tgcgtg

16

<210> 587  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 587  
gtaccagcgg gacgctt

17

<210> 588  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 588  
cgggtaccag caggacg

17

<210> 589  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 589  
caggacgctt acgacgg 17

<210> 590  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 590  
gtgcggttgg acagcga 17

<210> 591  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 591  
gaggacggta ctcacacc 18

<210> 592  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 592  
tggctgccac gtgggg 16

<210> 593  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 593  
ccgcgggcac cgtgg 15

<210> 594  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 594  
cagacacggc atgtgaag 18

<210> 595  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 595  
ggcccgttgg gcggag 16

<210> 596

<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 596  
ggcccgtcgg gcgga 15

<210> 597  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 597  
tggacgacgc gcagttc 17

<210> 598  
<211> 19  
<212> DNA  
<213> Homo sapiens  
<400> 598  
cagataatgc atggctgcg 19

<210> 599  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 599  
gagggctctcc ccaagcc 17

<210> 600  
<211> 19  
<212> DNA  
<213> Homo sapiens  
<400> 600  
aggtatttca ccacatccg 19

<210> 601  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 601  
atgtgaaggg ccactcac 18

<210> 602  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 602  
cacggagctt gtggagac 18

<210> 603  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 603  
cgggcgcctc ctccg

15

<210> 604  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 604  
ggatggcacg tgcgtgg

17

<210> 605  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 605  
ccccccagg acgcat

16

<210> 606  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 606  
ctgagctcct ggaccgc

17

<210> 607  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 607  
gatagagcgg gaggggc

17

<210> 608  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 608  
ccgtggatgg agcagga

17

<210> 609  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 609  
cacggacgcc cccaag 16

<210> 610  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 610  
agtgggcgtc tgtggtg 17

<210> 611  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 611  
ccccaagacg catatgac 18

<210> 612  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 612  
gcaggagagg ccggag 16

<210> 613  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 613  
gattacatct ccctgaacg 19

<210> 614  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 614  
tccgcagaca cctggag 17

<210> 615  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 615  
gaagtgggtg gctgtg 17

<210> 616  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 616  
ttctacact tccgtgtcc

19

<210> 617  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 617  
acacctccat gtcccg

17

<210> 618  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 618  
ccggcagcac gcctac

16

<210> 619  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 619  
tattgggacg aggagacac

19

<210> 620  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 620  
ggcggccctt gtggcg

16

<210> 621  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 621  
ccggcaggtc gcctac

16

<210> 622  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 622  
ggacgggcac ttctcc

17

<210> 623



<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 623  
gaccctgcac ggctact 17

<210> 624  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 624  
ccatccagag gatgtatgg 19

<210> 625  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 625  
ccagaccagg gcgggc 16

<210> 626  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 626  
gctactcttg ggggccc 17

<210> 627  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 627  
ggacctggcg accctg 16

<210> 628  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 628  
cactcacagg ctgaccga 18

<210> 629  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 629  
ggcggccagt gtggcg 16

<210> 630  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 630  
gtgtccccgc ccggc 15

<210> 631  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 631  
tctgcccag ccctc 16

<210> 632  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 632  
cccatctcag ggtgagggc t 21

<210> 633  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 633  
gcgctgcagc gtctccttc 20

<210> 634  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 634  
gcccaggtct gggtcagggc cag 23

<210> 635  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 635  
atggctccc gaaccctc 18

<210> 636  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 636  
atggcgcccc gaaccctc

18

<210> 637  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 637  
catctcaggg tgaggggct

19

## SEQUENCE LISTING B

<110> CANON KABUSHI KAISHA

<120> Probe set and method for identifying HLA allele

<130> ff

<150> JP2003-430554

<151> 2003-12-25

<160> 1015

<170> PatentIn version 3.2

<210> 1

<211> 19

<212> DNA

<213> Homo sapiens

<400> 1

agggtatttct acacctccg

19

<210> 2

<211> 17

<212> DNA

<213> Homo sapiens

<400> 2

ctcacacct ccagagc

17

<210> 3

<211> 15

<212> DNA

<213> Homo sapiens

<400> 3

gcctcctccg cgggc

15

<210> 4

<211> 17

<212> DNA

<213> Homo sapiens

<400> 4

ccgcgggcat gaccagt

17

<210> 5

<211> 16

<212> DNA

<213> Homo sapiens

<400> 5

gtgaggcgga gcagcg

16

<210> 6

<211> 16

<212> DNA  
<213> Homo sapiens

<400> 6  
tgaggcggag cagcgg 16

<210> 7  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 7  
gcctacctgg agggcga 17

<210> 8  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 8  
ggcgagtgcg tggagtg 17

<210> 9  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 9  
cgggaaggac aagctgg 17

<210> 10<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 10  
ggagtggctc cgcagg 16

<210> 11  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 11  
gctacgtgga cgacacg 17

<210> 12  
<211> 20<212> DNA  
<213> Homo sapiens  
<400> 12  
acagatctac aagaccaaca 20

<210> 13  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 13  
gtgaggcgga gcaggac

17

<210> 14  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 14  
cctcctccgc gggcata

17

<210> 15  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 15  
cgtcttccca gtccacca

18

<210> 16  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 16  
ctcacacct ccaggag

17

<210> 17  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 17  
accggaacac acagatctt

19

<210> 18  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 18  
acagatcttc aagaccaaca

20

<210> 19  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 19  
cgcgggcatg accagtc

17

<210> 20  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 20 cggaacaca cagatctg	18
<210> 21 <211> 19 <212> DNA <213> Homo sapiens	
<400> 21 cacagactga ccgagagaa	19
<210> 22 <211> 17 <212> DNA <213> Homo sapiens	
<400> 22 ggccgggtct cacatca	17
<210> 23 <211> 20 <212> DNA <213> Homo sapiens	
<400> 23 acatcatcca gaggatgtat	20
<210> 24 <211> 18 <212> DNA <213> Homo sapiens	
<400> 24 ggatgtatgg ctgcgacc	18
<210> 25 <211> 16 <212> DNA <213> Homo sapiens	
<400> 25 ctgcgacctg gggccc	16
<210> 26 <211> 19 <212> DNA <213> Homo sapiens	
<400> 26 agacacagaa gtacaagcg	19
<210> 27 <211> 17 <212> DNA <213> Homo sapiens	

<400> 27  
caagcgccag gcacagg

17

<210> 28  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 28  
gcacaggctg accgagt

17

<210> 29  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 29  
gaggccgggt ctacat

17

<210> 30  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 30  
gtctcacatc atccagagg

19

<210> 31  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 31  
cgctctctcc gcgggt

16

<210> 32  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 32  
caaggcccag gcacagg

17

<210> 33  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 33  
caagaccaac acacagactt

20

<210> 34  
<211> 17  
<212> DNA  
<213> Homo sapiens



<400> 34  
cgcggttatg accagtc

17

<210> 35  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 35  
gcctacctgg agggcac

17

<210> 36  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 36  
ctggagaacg ggaaggag  
<210> 37  
<211> 16  
<212> DNA  
<213> Homo sapiens

18

<400> 37  
gacgctggag cgcgcg

16

<210> 38  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 38  
gcctacctgg agggcct

17

<210> 39  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 39  
ggcctgtgcg tggagtc

17

<210> 40  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 40  
cggccgcggg gagct

15

<210> 41  
<211> 16  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 41

tcctggaccg ccgcca

16

&lt;210&gt; 42

&lt;211&gt; 16

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 42

cggaacctgc gcggcc

16

&lt;210&gt; 43

&lt;211&gt; 16

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 43

gcctacctgg agggcc

16

&lt;210&gt; 44

&lt;211&gt; 16

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 44

gggaggcggc ccgtgt

16

&lt;210&gt; 45

&lt;211&gt; 17

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 45

gtgtggcgga gcaggac

17

&lt;210&gt; 46

&lt;211&gt; 17

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 46

cgtgaggcgg agcagct

17

&lt;210&gt; 47

&lt;211&gt; 18

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 47

ccggaacaca cagatctc

18

&lt;210&gt; 48

&lt;211&gt; 18

&lt;212&gt; DNA

<213> Homo sapiens

<400> 48

cacagactta ccgagagg

18

<210> 49

<211> 16

<212> DNA

<213> Homo sapiens

<400> 49

ctgcggaccc tgctcc

16

<210> 50

<211> 17

<212> DNA

<213> Homo sapiens

<400> 50

ccgcgggtat gaccagg

17

<210> 51

<211> 19

<212> DNA

<213> Homo sapiens

<400> 51

cactccatga ggtatttcg

19

<210> 52

<211> 18

<212> DNA

<213> Homo sapiens

<400> 52

ggtatttcga caccgcca

18

<210> 53

<211> 16

<212> DNA

<213> Homo sapiens

<400> 53

cgagagagga gccgcc

16

<210> 54

<211> 17

<212> DNA

<213> Homo sapiens

<400> 54

agcctacctg gagggca

17

<210> 55

<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 55  
gatgtgtagg aggaagagc 19

<210> 56  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 56  
ctgcgcaccg cgctcc 16

<210> 57  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 57  
ccgagagaac ctgcggat 18

<210> 58  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 58  
gagaacctgc ggatcgc 17

<210> 59  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 59  
ctgcggatcg cgctcc 16

<210> 60  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 60  
cacgctggag cgcgcg 16

<210> 61  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 61  
ggaccggaac acacaac 17

<210> 62  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 62  
cacttggcag acgatgtat

19

<210> 63  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 63  
ggagtattgg gaccggg

17

<210> 64  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 64  
ccgggacaca cagatctt

18

<210> 65  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 65  
cgtgtggcgg agcagct

17

<210> 66  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 66  
cgcggtacc accagg

16

<210> 67  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 67  
cacacagact gaccgagt

18

<210> 68  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 68  
ttcaagacca acacacagg 19

<210> 69  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 69  
ccgggagaca cagatctc 18

<210> 70  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 70  
gtgctgggcc ctgggc 16

<210> 71  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 71  
ggctcagatc acccagct 18

<210> 72  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 72  
gtctcacact tggcagac 18

<210> 73  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 73  
cgcgggcata accagtta 18

<210> 74  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 74  
cgatgtatgg ctgcgacc 18

<210> 75  
<211> 18  
<212> DNA

<213> Homo sapiens

<400> 75

tgggagccat cttccaa

18

<210> 76

<211> 17

<212> DNA

<213> Homo sapiens

<400> 76

gagcagctga gagcctg

17

<210> 77

<211> 17

<212> DNA

<213> Homo sapiens

<400> 77

ggtctcacac cctccat

17

<210> 78

<211> 17

<212> DNA

<213> Homo sapiens

<400> 78

ccagaccagc aggagac

17

<210> 79

<211> 17

<212> DNA

<213> Homo sapiens

<400> 79

ccctgagatg ggagcca

17

<210> 80

<211> 20

<212> DNA

<213> Homo sapiens

<400> 80

catgaggtat ttctacaccg

20

<210> 81

<211> 17

<212> DNA

<213> Homo sapiens

<400> 81

ctcccactcc atgaggc

17

<210> 82

<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 82  
gcaggagggg ccggaa

16

<210> 83  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 83  
ggagtggctc cgcagac

17

<210> 84  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 84  
gacgctgcag cgcgcg

16

<210> 85  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 85  
caccctccag aggatgtat

19

<210> 86  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 86  
tcctgtgtct ctcggga

17

<210> 87  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 87  
gcgccccggg cgcca

15

<210> 88  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 88  
gagtattggg accgggag

18



<210> 89  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 89  
ccgtgaggcg gagcagt 17

<210> 90  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 90  
gaccaaactc aggacacc 18

<210> 91  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 91  
ccgcctacga cggcaaa 17

<210> 92  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 92  
gagctcctgg accgcg 16

<210> 93  
<211> 19  
<212> DNA  
<213> Homo sapiens  
<400> 93  
ggattacatc gccctgaat 19

<210> 94  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 94  
cgacacgcag ttcgtgc 17

<210> 95  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 95  
cagatctcca agaccaaca 19

<210> 96  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 96  
cggagctgtg gtcgcta 17

<210> 97  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 97  
caccctccag aggatgtt 18

<210> 98  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 98  
tacgcctacg acggcaaa 18

<210> 99  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 99  
cagatctgca agaccaaca 19

<210> 100  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 100  
cgagtccgag gatggct 17

<210> 101  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 101  
gggcctgtgc gtggac 16

<210> 102  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 102  
gggccggctc ccactt

16

<210> 103  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 103  
acatgaaggc ctccgcg

17

<210> 104  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 104  
gcagctgtgg tgggtgt

17

<210> 105  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 105  
gtgacccacc accccg

16

<210> 106  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 106  
gtattgggac cgggagat

18

<210> 107  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 107  
gcgagtccga ggatggc

17

<210> 108  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 108  
caccctccag aggatgtc

18

<210> 109  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 109  
ggaccgccgc ggacaa

16

<210> 110  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 110  
gatgtacggc tgcgacc

17

<210> 111  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 111  
gtctcacacc ctccagac

18

<210> 112  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 112  
ctcacaccct ccagacg

17

<210> 113  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 113  
accgagagaa cctgcgc

17

<210> 114  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 114  
cggaaggag acgctgc

17

<210> 115  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 115  
ccctgaacga ggacctga

18

<210> 116  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 116  
ggagccccgc ttcacg

17

<210> 117  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 117  
aggtatttct acaccgcca

19

<210> 118  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 118  
tccgaggatg ggcgcc

16

<210> 119  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 119  
gttcgacagc gacgcca

17

<210> 120  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 120  
gagccgcggg cgcca

15

<210> 121  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 121  
ggcggagcag ctgagaa

17

<210> 122  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 122  
aacctacctg gagggcc

17

<210> 123  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 123  
acctacctgg agggcct

17

<210> 124  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 124  
ctccaagacc aacacacg

18

<210> 125  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 125  
ctacgtggac gacacgct

18

<210> 126  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 126  
ccgggagaca cagatctt

18

<210> 127  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 127  
acacacagac ttaccgagt

19

<210> 128  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 128  
cacagactta ccgagtga

19

<210> 129  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 129  
ccgcgggcat aaccagtt 18

<210> 130  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 130  
cccagttcgt gaggttca 18

<210> 131  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 131  
ccgggagaca cagatctg 18

<210> 132  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 132  
ggctcagatc acccagca 18

<210> 133  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 133  
acctacctgg agggcac 17

<210> 134  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 134  
cactccatga ggtatttc 19

<210> 135  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 135  
gaccccccaa agacacat 18

<210> 136  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 136  
gagacacaga tctccaagat

20

<210> 137  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 137  
gggaggcggc ccgtc

15

<210> 138  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 138  
gcgccgtgga tagagcaa

18

<210> 139  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 139  
gaccaacaca cagacttaca

20

<210> 140  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 140  
acaccctcca gaatatgtat

20

<210> 141  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 141  
ggagccccgc ttcattg

17

<210> 142  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 142  
ggattacatc gccctgaag

19



<210> 143  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 143  
caccctccag aggatgtg 18

<210> 144  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 144  
gcgccgtgga tagagcaa 18

<210> 145  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 145  
cgagagaacc tgcgcac 17

<210> 146  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 146  
gagaacctgc gcaccgc 17

<210> 147  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 147  
gtctcacacc ctccagaat 19

<210> 148  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 148  
caggaggggc cggagc 16

<210> 149  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 149

ctgggcttct accctgg

17

<210> 150  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 150  
cacagactga ccgagagg

18

<210> 151  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 151  
cgccgcggac acggca

16

<210> 152  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 152  
ctgctctggg gggcag

16

<210> 153  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 153  
ccagagcgag gccggt

16

<210> 154  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 154  
ctccgtgtcc cggcct

16

<210> 155  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 155  
cgcggtacc accagc

16

<210> 156  
<211> 17  
<212> DNA

<213> Homo sapiens

<400> 156

tgaccgagac ctgggct

17

<210> 157

<211> 17

<212> DNA

<213> Homo sapiens

<400> 157

caggaggggc cggagtt

17

<210> 158

<211> 17

<212> DNA

<213> Homo sapiens

<400> 158

cgagagagcc tgcggac

17

<210> 159

<211> 17

<212> DNA

<213> Homo sapiens

<400> 159

cacggcggct cagatct

17

<210> 160

<211> 17

<212> DNA

<213> Homo sapiens

<400> 160

cggagcagct gagagct

17

<210> 161

<211> 15

<212> DNA

<213> Homo sapiens

<400> 161

ggcccgcacgg gcgct

15

<210> 162

<211> 17

<212> DNA

<213> Homo sapiens

<400> 162

cgcgggcatg accagtt

17

<210> 163  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 163  
ccatgtcccg gcccg

16

<210> 164  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 164  
gaccgcggcg gacacc

16

<210> 165  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 165  
ctgcgacgtg gggccc

16

<210> 166  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 166  
tccgaggacg gagccc

16

<210> 167  
<211> 15  
<212> DNA  
<213> Homo sapiens  
<400> 167  
gagccccggg cgcca

15

<210> 168  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 168  
ccgcgagtcc gaggac

16

<210> 169  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 169  
cacatcatcc agaggatgtt

20

<210> 170  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 170  
cacagactta ccgagagaa 19

<210> 171  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 171  
catgtacggc tgcgacc 17

<210> 172  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 172  
ctgcggaacc tgcgcga 17

<210> 173  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 173  
catgaccagt ccgcctg 17

<210> 174  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 174  
caccatccag aggatgtc 18

<210> 175  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 175  
gacctgagct cctggaca 18

<210> 176  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 176  
cgagagagcc tgcgcac

17

<210> 177  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 177  
gcaggagggg ccggg

15

<210> 178  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 178  
gaacctacct ggagggca

18

<210> 179  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 179  
aacctacctg gagggcat

18

<210> 180  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 180  
ctggaccgcg gcggag

16

<210> 181  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 181  
tagacagga ggggccca

17

<210> 182  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 182  
tctcacactt ggcagacg

18

<210> 183  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 183  
ggcggagcag cggagaa

17

<210> 184  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 184  
cgccccggcc gcgga

15

<210> 185  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 185  
ggtctcacac cctccac

17

<210> 186  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 186  
ccgcgggtat aaccagta

19

<210> 187  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 187  
ggcggagcag tggagaa

17

<210> 188  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 188  
gaatattggg accgggag

18

<210> 189  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 189  
gcggctcaga tcacccg

17

<210> 190  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 190  
cacaccctcc agagcac

17

<210> 191  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 191  
agtgggaggc ggcct

16

<210> 192  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 192  
gaccgagacc tgggcg

16

<210> 193  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 193  
cgccacgagt ccgagga

17

<210> 194  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 194  
gatctcccag cgcaagtt

18

<210> 195  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 195  
tggaggcggc ccgtgt

16

<210> 196  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 196  
tgaccgagac ctgggct

17



<210> 197  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 197  
gcgctcctgg accgcg 16

<210> 198  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 198  
agggcgagtg cgtggat 17

<210> 199  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 199  
ggtatttcca caccgcca 18

<210> 200  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 200  
ccgcgggcat aaccaga 17

<210> 201  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 201  
ccggagtatt gggaccc 17

<210> 202  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 202  
ggtctcacat catccagg 18

<210> 203  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 203  
cgcttacgac ggcaaga

17

<210> 204  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 204  
cgcgggcata accagtc

17

<210> 205  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 205  
ccgggtctca cacttg

17

<210> 206  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 206  
cacttggcag aggatgtat

19

<210> 207  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 207  
gagagagcct gcggaag

17

<210> 208  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 208  
cggaaggac acgtgc

17

<210> 209  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 209  
cacgtgcag cgcg

16

<210> 210  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 210  
ccatctctga ccatgaggt

19

<210> 211  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 211  
cgggagacac agatctcg

18

<210> 212  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 212  
ggaggcggcc cgtgtc

16

<210> 213  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 213  
agagaacctg cgcaccg

17

<210> 214  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 214  
gggagccccg cttcatt

17

<210> 215  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 215  
ctgcgcaccc cgctcc

16

<210> 216  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 216  
ggccggagta ttgggag

17

<210> 217  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 217  
ccgcgggcat aaccagg

17

<210> 218  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 218  
ggcgagtgcg tggagtc

17

<210> 219  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 219  
cgggcgccgt gggtg

15

<210> 220  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 220  
gagagaacct gcggatcg

18

<210> 221  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 221  
gtggacgaca cgctgttg

18

<210> 222  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 222  
tggaggcct gtgcgc

16

<210> 223  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 223  
gacggcaagg attacatca

19

<210> 224  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 224  
ccgcgggtat aaccagtt 18

<210> 225  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 225  
ctccgcgggt ataaccg 17

<210> 226  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 226  
gcggagcagg acagagt 17

<210> 227  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 227  
gagacacaga agtacaagc 19

<210> 228  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 228  
cgccaggcac agactgg 17

<210> 229  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 229  
tgtggtcgct gctgtgg 17

<210> 230  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 230  
cctgcggaac ctgctcc

17

<210> 231  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 231  
agaaccttcc agaagtgga

19

<210> 232  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 232  
agccccgctt catctcc

17

<210> 233  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 233  
ccgcgggtat aaccagtta

19

<210> 234  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 234  
ggcctgtgcg tggagg

16

<210> 235  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 235  
cggtatcgcg tccgcg

16

<210> 236  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 236  
ttgcctacg acggcaaa

18

<210> 237  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 237  
ctcctccgcg ggcataaa 18

<210> 238  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 238  
gcgtctcctc cgcggt 16

<210> 239  
<211> 15  
<212> DNA  
<213> Homo sapiens  
<400> 239  
cgggcgcctc ctccc 15

<210> 240  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 240  
gagtccgagg acggaga 17

<210> 241  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 241  
atagagcagg aggggcg 17

<210> 242  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 242  
ccagaccagc aggagatg 18

<210> 243  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 243  
cagcatgagg ggctgct 17

<210> 244  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 244  
cagacttacc gagagaact

19

<210> 245  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 245  
gcgacgccgc gagtca

16

<210> 246  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 246  
ccgcggggag ccccc

15

<210> 247  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 247  
cgagagagcc tgcggat

17

<210> 248  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 248  
gagagcctgc ggatcgc

17

<210> 249  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 249  
ggcacagact gaccgagt

18

<210> 250  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 250  
gaccgccgcg gacacc

16



<210> 251  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 251  
gcaggagggg ccggc 15

<210> 252  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 252  
ccgcgagtcc gagagg 16

<210> 253  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 253  
ggtctcacac ttggcagat 19

<210> 254  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 254  
acggcacccc gaaccc 16

<210> 255  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 255  
ctcctcctgc tgctctg 17

<210> 256  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 256  
agacacagaa gtacaagg 19

<210> 257  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 257  
ggtctcacat catccaggt

19

<210> 258  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 258  
gcgggcatga ccagtct

17

<210> 259  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 259  
gaccgcggcg gacaca

16

<210> 260  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 260  
gccggagtat tgggacg

17

<210> 261  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 261  
cctcctccgc gggtata

17

<210> 262  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 262  
cacggcggct cagatcat

18

<210> 263  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 263  
tgcggatcgc gctccc

16

<210> 264  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 264  
gccggagtat tgggacga 18

<210> 265  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 265  
ggaggcggcc cgtgc 15

<210> 266  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 266  
cgacgccgcg agtcca 16

<210> 267  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 267  
gtcaccgtag ctgtggtc 18

<210> 268  
<211> 19  
<212> DNA  
<213> Homo sapiens  
<400> 268  
gtgtaggagg aagagttct 19

<210> 269  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 269  
cagacctac ctggagga 18

<210> 270  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 270  
gtcatcggag ctgtggtt 18

<210> 271  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 271  
cacctccgtg tcccgg

16

<210> 272  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 272  
cctccagagc atgtacgg

18

<210> 273  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 273  
ccgcgggcat gaccag

16

<210> 274  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 274  
catgaccagt acgcctac

18

<210> 275  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 275  
ggagcagcgg agagcc

16

<210> 276  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 276  
gagcagcgga gaggcta

17

<210> 277  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 277  
ggagggcgag tgcgtg

16

<210> 278  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 278  
cgtggagtgg ctccgc 16

<210> 279  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 279  
acaagctgga gcgcgt 17

<210> 280  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 280  
ctccgcaggt acctgga 17

<210> 281  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 281  
ggacgacag cagttcgt 18

<210> 282  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 282  
aagaccaaca cacagactg 19

<210> 283  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 283  
ggagcaggac agagccta 18

<210> 284  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 284  
cgcgggcata accagtac

18

<210> 285  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 285  
cagtccacca tccccatc

18

<210> 286  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 286  
cctccagagg atgtacgg

18

<210> 287  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 287  
acacagatct tcaagaccaa

20

<210> 288  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 288  
tgaccagtcc gcctacg

17

<210> 289  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 289  
cacagatctg caaggccc

18

<210> 290  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 290  
ccgagagaac ctgcgga

17

<210> 291  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 291  
tctcacatca tccagagga

19

<210> 292  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 292  
gaggatgtat ggctgcga

18

<210> 293  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 293  
ctgcgacctg gggccc

16

<210> 294  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 294  
ctggggcccg acggg

15

<210> 295  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 295  
gtacaagcgc caggcac

17

<210> 296  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 296  
aggcacaggc tgaccga

17

<210> 297  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 297  
tgaccgagtg agcctgc

17

<210> 298

<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 298  
ggtctcacat catccagag 19

<210> 299  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 299  
catccagagg atgtacgg 18

<210> 300  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 300  
tccgcgggta tgaccag 17

<210> 301  
<211> 20  
<212> DNA  
<213> Homo sapiens  
<400> 301  
aagaccaaca cacagactta 20

<210> 302  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 302  
acacagactt accgagaga 19

<210> 303  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 303  
ggagggcacg tgcgtg 16

<210> 304  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 304  
gggaaggaga cgctgga 17

<210> 305  
<211> 17



<212> DNA  
<213> Homo sapiens

<400> 305  
gaaggagacg ctggagc 17

<210> 306  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 306  
ggagggcctg tgcgtg 16

<210> 307  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 307  
cgtggagtcg ctccgc 16

<210> 308  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 308  
cggggagctc cgcttc 16

<210> 309  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 309  
cgccgcgaac acggcg 16

<210> 310  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 310  
tgcgcggcca ctacaac 17

<210> 311  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 311  
ggagggcctg tgcgtg 16

<210> 312  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 312  
ggcccgtgtg gcggag

16

<210> 313  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 313  
ggagcagctg agagcct

17

<210> 314  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 314  
cacagatctc caagaccaa

19

<210> 315  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 315  
acacagactt accgagagg

19

<210> 316  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 316  
ccgagaggac ctgcgg

16

<210> 317  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 317  
ccctgctccg ctactac

17

<210> 318  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 318  
tatgaccagg acgcctac

18

<210> 319  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 319  
aggtatttcg acaccgcc 18

<210> 320  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 320  
caccgccatg tcccg 16

<210> 321  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 321  
gagccgccgg cgccg 15

<210> 322  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 322  
ggagggcacg tgcgtg 16

<210> 323  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 323  
gaggaagagc tcaggtgg 18

<210> 324  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 324  
ccgcgtccg ctactac 17

<210> 325  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 325  
cctgcggatc gcgctc

16

<210> 326  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 326  
gcggatcgcg ctccgc

16

<210> 327  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 327  
tcgcgctccg ctactac

17

<210> 328  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 328  
gaaggacacg ctggagc

17

<210> 329  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 329  
acacacagac cttcaagac

19

<210> 330  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 330  
gacgatgtat ggctgcga

18

<210> 331  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 331  
gggaccggga cacacag

17

<210> 332  
<211> 17

<212> DNA  
<213> Homo sapiens

<400> 332  
accaccagga cgctac 17

<210> 333  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 333  
aacacacagg ctgaccga 18

<210> 334  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 334  
gccctgggct tctacc 17

<210> 335  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 335  
caccagctc aagtggg 17

<210> 336  
<211> 19  
<212> DNA  
<213> Homo sapiens  
<400> 336  
cttggcagac gatgtatgg 19

<210> 337  
<211> 19  
<212> DNA  
<213> Homo sapiens  
<400> 337  
taaccagtta gcctacgac 19

<210> 338  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 338  
ctgcgacctg gggccg 16

<210> 339  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 339  
atcttcccaa tccaccgtc

19

<210> 340  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 340  
gagagcctgc ctggagg

17

<210> 341  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 341  
accctccagt ggatgtatg

19

<210> 342  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 342  
agcaggagac agaaccttc

19

<210> 343  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 343  
atgggagcca tcttccca

18

<210> 344  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 344  
tctacaccgc cgtgtcc

17

<210> 345  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 345  
tccatgaggc atttctacac

20

<210> 346  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 346  
ggggccggaa tattggga 18

<210> 347  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 347  
tccgcagaca cctggag 17

<210> 348  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 348  
gacgctgcag cgcgcg 16

<210> 349  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 349  
ctctcgggag ccctgg 16

<210> 350  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 350  
cgggcgccat ggataga 17

<210> 351  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 351  
ggaccgggag acacagat 18

<210> 352  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 352  
cggagcagtg gagagcc 17

<210> 353  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 353  
tcaggacacc gagcttgt 18

<210> 354  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 354  
cgacggcaaa gattacatc 19

<210> 355  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 355  
tggaccgcgg cggaca 16

<210> 356  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 356  
cgccctgaat gaggacct 18

<210> 357  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 357  
cagttcgtgc ggttcgac 18

<210> 358  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 358  
gtggtcgcta ctgtgatg 18

<210> 359  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 359  
agaggatgtt tggtgcg 18



<210> 360  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 360  
cacagatctg caagaccaa 19

<210> 361  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 361  
aggatggctc cccggg 16

<210> 362  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 362  
tgcgtggacg ggctcc 16

<210> 363  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 363  
gtccactt catgaggt 18

<210> 364  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 364  
gcctccgcgc agactta 17

<210> 365  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 365  
tgggtggtgct ttctggag 18

<210> 366  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 366  
accaccccgt ctctgac

17

<210> 367  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 367  
accgggagat acagatctc

19

<210> 368  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 368  
gaggatggcg ccccg

16

<210> 369  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 369  
gaggatgtct ggctgcg

17

<210> 370  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 370  
cgcggaacaag gcggct

16

<210> 371  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 371  
ccctccagac gatgtacg

18

<210> 372  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 372  
cctccagacg atgtacgg

18

<210> 373  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 373  
aacctgcgca ccgcgc 16

<210> 374  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 374  
aggacctgag ctctgg 17

<210> 375  
<211> 17  
<212> DNA  
<213> Homo sapiens  
<400> 375  
gcttcacgc agtgggc 17

<210> 376  
<211> 15  
<212> DNA  
<213> Homo sapiens  
<400> 376  
atggcgcccc gggcg 15

<210> 377  
<211> 16  
<212> DNA  
<213> Homo sapiens  
<400> 377  
cgacgccacg agtccg 16

<210> 378  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 378  
cagctgagaa cctacctg 18

<210> 379  
<211> 18  
<212> DNA  
<213> Homo sapiens  
<400> 379  
ccaacacacg gacttacc 18

<210> 380  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 380  
gggaaggaga cgctgca

17

<210> 381  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 381  
acgacacgct gttcgtga

18

<210> 382  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 382  
cttaccgagt gaacctgc

18

<210> 383  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 383  
ccgagtgaac ctgcgga

17

<210> 384  
<211> 19  
<212> DNA  
<213> Homo sapiens  
<400> 384  
ataaccagtt cgctacga

19

<210> 385  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 385  
gtgaggttca acagcgac

18

<210> 386  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 386  
caccagcac aagtggg

17

<210> 387  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 387  
cggagcagct gagaacct 18

<210> 388  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 388  
aggtatttcc acacctccg 19

<210> 389  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 389  
aaagacacat gtgaccac 19

<210> 390  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 390  
atctccaaga tcaacacaca 20

<210> 391  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 391  
ggcccgtcag gcggag 16

<210> 392  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 392  
gatagagcaa gaggggcc 18

<210> 393  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 393  
cagacttaca gagagagcc 19

<210> 394  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 394  
gaatatgtat ggctgcgac 19

<210> 395  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 395  
cgcttcattg cagtgggc 18

<210> 396  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 396  
gccctgaagg aggacct 17

<210> 397  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 397  
cttaccgagt ggcctgc 18

<210> 398  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 398  
gaggatgtgc ggctgcg 17

<210> 399  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 399  
gatagagcaa gaggggcc 18

<210> 400  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 400  
cacagatctg caaggcca 18

<210> 401  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 401  
cctgcgacc gcgctc 16

<210> 402  
<211> 15  
<212> DNA  
<213> Homo sapiens  
<400> 402  
cgaccgcgc tccgc 15

<210> 403  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 403  
cctccagaat atgtatggc 19

<210> 404  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 404  
ggccggagca ttggac 17

<210> 405  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 405  
tctaccctgg ggagatca 18

<210> 406  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 406  
ggacacggca gctcagat 18

<210> 407  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 407  
gggggcagtg gccctg 16

<210> 408  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 408  
gaggccggtt ctacac 17

<210> 409  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 409  
tcccggcctg gccgc 15

<210> 410  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 410  
accaccagca cgcctac 17

<210> 411  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 411  
acctgggctg gctccc 16

<210> 412  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 412  
ggtcacggag ccccgga 16

<210> 413  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 413



gccggagttt tgggacc

17

<210> 414

<211> 19

<212> DNA

<213> Homo sapiens

<400> 414

cctccagaat atgtacggc

19

<210> 415

<211> 16

<212> DNA

<213> Homo sapiens

<400> 415

cctgcggacc ctgctc

16

<210> 416

<211> 17

<212> DNA

<213> Homo sapiens

<400> 416

ctcagatctc ccagcgc

17

<210> 417

<211> 18

<212> DNA

<213> Homo sapiens

<400> 417

gctgagagct tacctgga

18

<210> 418

<211> 15

<212> DNA

<213> Homo sapiens

<400> 418

cgggcgttcc tccgc

15

<210> 419

<211> 18

<212> DNA

<213> Homo sapiens

<400> 419

atgaccagtt cgcctacg

18

<210> 420

<211> 18

<212> DNA

<213> Homo sapiens

<400> 420

cgcgggcata accagttc

18

<210> 421

<211> 15

<212> DNA

<213> Homo sapiens

<400> 421

cggcccggtcc gcggg

15

<210> 422

<211> 16

<212> DNA

<213> Homo sapiens

<400> 422

gcggacaccg cggctc

16

<210> 423

<211> 19

<212> DNA

<213> Homo sapiens

<400> 423

tctcacatca tccagagca

19

<210> 424

<211> 15

<212> DNA

<213> Homo sapiens

<400> 424

gtggggcccg acggg

15

<210> 425

<211> 15

<212> DNA

<213> Homo sapiens

<400> 425

acggagcccc gggcg

15

<210> 426

<211> 16

<212> DNA

<213> Homo sapiens

<400> 426

tccgaggacg gagccc

16

<210> 427  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 427  
acctgcgcga ctactaca 18

<210> 428  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 428  
gtccgcctgc gacggc 16

<210> 429  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 429  
tcctggacag cggcgg 16

<210> 430  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 430  
ccgagagaac ctgcgca 17

<210> 431  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 431  
ggggccggga tattggg 17

<210> 432  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 432  
tggagggcat gtgcgtg 17

<210> 433  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 433

ggagggcatg tgcgtgg

17

<210> 434

<211> 15

<212> DNA

<213> Homo sapiens

<400> 434

gcggcggaga ccgcg

15

<210> 435

<211> 18

<212> DNA

<213> Homo sapiens

<400> 435

ggaggggcca gaatattg

18

<210> 436

<211> 18

<212> DNA

<213> Homo sapiens

<400> 436

cttggcagac gatgtacg

18

<210> 437

<211> 18

<212> DNA

<213> Homo sapiens

<400> 437

ttggcagacg atgtacgg

18

<210> 438

<211> 18

<212> DNA

<213> Homo sapiens

<400> 438

cagcggagaa cctacctg

18

<210> 439

<211> 15

<212> DNA

<213> Homo sapiens

<400> 439

ggccgcggag agccc

15

<210> 440

<211> 18

<212> DNA

<213> Homo sapiens

<400> 440

caccctccac aggatgta

18

<210> 441

<211> 17

<212> DNA

<213> Homo sapiens

<400> 441

cggagcagtg gagaacc

17

<210> 442

<211> 18

<212> DNA

<213> Homo sapiens

<400> 442

cagtggagaa cctacctg

18

<210> 443

<211> 17

<212> DNA

<213> Homo sapiens

<400> 443

gatcacccgg cgcaagt

17

<210> 444

<211> 17

<212> DNA

<213> Homo sapiens

<400> 444

ccagagcacg tacggct

17

<210> 445

<211> 16

<212> DNA

<213> Homo sapiens

<400> 445

ggcggccctt gtggcg

16

<210> 446

<211> 16

<212> DNA

<213> Homo sapiens

<400> 446

acctgggcgg gctccc

16

<210> 447  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 447  
gtcacggcac cccgaac

17

<210> 448  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 448  
aggtatttcc acaccgcc

18

<210> 449  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 449  
gtccgaggaa ggagccg

17

<210> 450  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 450  
gcgcaagttg gaggcgg

17

<210> 451  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 451  
acctgggctg gctccc

16

<210> 452  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 452  
tgcgtaggatt ggctccg

17

<210> 453  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 453

cataaccaga acgcctacg

19

<210> 454

<211> 17

<212> DNA

<213> Homo sapiens

<400> 454

ttgggacccg gagacac

17

<210> 455

<211> 20

<212> DNA

<213> Homo sapiens

<400> 455

atcatccagg tgatgtatgg

20

<210> 456

<211> 19

<212> DNA

<213> Homo sapiens

<400> 456

gacggcaaga attacatcg

19

<210> 457

<211> 18

<212> DNA

<213> Homo sapiens

<400> 457

ataaccagtc cgcctacg

18

<210> 458

<211> 16

<212> DNA

<213> Homo sapiens

<400> 458

ctgcggaagc tgcgcg

16

<210> 459

<211> 19

<212> DNA

<213> Homo sapiens

<400> 459

tcacacttgg cagaggatg

19

<210> 460

<211> 16

<212> DNA

<213> Homo sapiens

<400> 460  
cacgctgcag cgcgcg 16

<210> 461  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 461  
accatgaggt caccctga 18

<210> 462  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 462  
acagatctcg aagaccaac 19

<210> 463  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 463  
gcccggtgtcg cggagc 16

<210> 464  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 464  
gcgcaccgcg ctccg 15

<210> 465  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 465  
ccgcttcatt gcagtggg 18

<210> 466  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 466  
cctgcgcacc ccgctc 16

<210> 467



<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 467  
ccccgctccg ctactac 17

<210> 468  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 468  
gtattgggag cgggagac 18

<210> 469  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 469  
gcgggcataa ccaggac 17

<210> 470  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 470  
cataaccagg acgcctac 18

<210> 471  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 471  
ctccgcgggt ataaccag 18

<210> 472  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 472  
ccgtgggtgg agcagg 16

<210> 473  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 473  
gcggatcgcg ctccgc 16

<210> 474  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 474  
cacgctgttg gtgaggtt 18

<210> 475  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 475  
cctgtgcgcg gagtgc 16

<210> 476  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 476  
gattacatca cctgaacg 19

<210> 477  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 477  
ggtataaccg gttgccta 19

<210> 478  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 478  
aggacagagt ctacctgg 18

<210> 479  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 479  
aagtacaagc gccaggca 18

<210> 480  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 480  
cacagactgg ccgagtga

18

<210> 481  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 481  
gctgctgtgg tgtgtagg

18

<210> 482  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 482  
aacctgctcc gctactac

18

<210> 483  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 483  
cagaagtgga cagctgtg

18

<210> 484  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 484  
cagcgcgcgg acccc

15

<210> 485  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 485  
cttcactcc gtgggcta

18

<210> 486  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 486  
cgtggagggg ctccgc

16

<210> 487

<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 487  
cgctccgcga ctacaac 17

<210> 488  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 488  
cgggcataaa cagtacgc 18

<210> 489  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 489  
cctccgcggt tataacca 18

<210> 490  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 490  
cctcctccc gggcat 16

<210> 491  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 491  
gacggagacc cgggcg 16

<210> 492  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 492  
ggaggggcgg gagtatt 17

<210> 493  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 493  
gcaggagatg gaaccttc 18

<210> 494  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 494  
ggggctgctg aagccc 16

<210> 495  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 495  
cgggtcacgg cgccc 15

<210> 496  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 496  
tccgaggacg gagccg 16

<210> 497  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 497  
cgagagaact tgcggatc 18

<210> 498  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 498  
cgcgagtcag aggacgg 17

<210> 499  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 499  
ggagcccccc ttcacg 17

<210> 500  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 500  
ggggccggcg tattgg

16

<210> 501  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 501  
tccgagaggg gagccg

16

<210> 502  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 502  
cttggcagat gatgtatgg

19

<210> 503  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 503  
gtacaagggc caggcac

17

<210> 504  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 504  
tcatccaggt gatgtatgg

19

<210> 505  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 505  
tgaccagtct gcctacga

18

<210> 506  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 506  
gcggacacag cggtc

16

<210> 507

<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 507  
tattgggacg gggagaca 18

<210> 508  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 508  
cgcggtata accagtac 18

<210> 509  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 509  
ctcagatcat ccagcgca 18

<210> 510  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 510  
cgcgctccc tactaca 17

<210> 511  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 511  
attgggacga ggagacac 18

<210> 512  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 512  
gcccgtcgg cggag 15

<210> 513  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 513  
gaaggagacg ctgcagc 17

<210> 514  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 514  
gcgagtccaa gagggga

17

<210> 515  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 515  
gctgtggtcg ctgtggt

17

<210> 516  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 516  
cctggaggac ctgtgcg

17

<210> 517  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 517  
agctgtgggt gctactgtg

19

<210> 518  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 518  
ctgagctctt ctcctacac a

21

<210> 519  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 519  
tccttcccggt tctccaggt

19

<210> 520  
<211> 18  
<212> DNA  
<213> Homo sapiens



<400> 520  
aggtctcggg cagggcca

18

<210> 521  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 521  
gctcccactc catgaggtat ttc

23

<210> 522  
<211> 1020  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (955)..(957)  
<223> n is a, c, g, or t

<400> 522  
atgctgggtca tggcgccccg aaccgtcttc ctgctgctct cggcgccctt ggccttgacc 60  
gagacctggg ccggctccca ctccatgagg tattttctaca cctccgtgtc ccggcccggc 120  
cgcgggggagc ccgcttcat ctcaagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
agcatgtacg gctgcgacgt ggggcccggc gggcgctcc tccgcgggca tgaccagtac 420  
gcctacgacg gcaaggatta catgcctctg aacgaggacc tgcgtcctg gaccgccg 480  
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg ccgctgagc ggagcagcgg 540  
agagcctacc tggagggcga gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
gacaagctgg agcgcgtga cccccaaag acacactga cccaccacc catctctgac 660  
catgaggcca ccctgaggtg ctgggccctg ggtttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa cttccagaa gtgggcagct gtggtgggtc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
tcttccagt ccaccgtcc catcgtggc attgttctg gctggctgt cctannngca 960  
gttggtgtca tggagctgt ggtcgtgct gtgatgtga ggaggaagag ttcaggtgga 1020

<210> 523  
<211> 1009  
<212> DNA  
<213> Homo sapiens

<400> 523  
atgctgggtca tggcgccccg aaccgtcttc ctgctgctct cggcgccctt ggccttgacc 60  
gagacctggg ccggctccca ctccatgagg tattttctaca cctccgtgtc ccggcccggc 120  
cgcgggggagc ccgcttcat ctcaagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
agcatgtacg gctgcgacgt ggggcccggc gggcgctcc tccgcgggca tgaccagtac 420  
gcctacgacg gcaaggatta catgcctctg aacgaggacc tgcgtcctg gaccgccg 480  
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg ccgctgagc ggagcagcgg 540  
agagcctacc tggagggcga gtgcgtggag tggctccgca ggtacctgga gaacgggaag 600

gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggtttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagc ccaccgtccc catcgtgggc attgttctg ccttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagtt 1009

<210> 524  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 524  
 gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccggccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgccgaggac acggcggtc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac aagctggagc 540  
 cgctg 546

<210> 525  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 525  
 atgtgggtca tggcgcccc aaccgtctc ctgctgtctt cggcggccct ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat ctagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggcgggac gggcgccctc tccgcgggca tgaccgtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcgcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggagggcg cccgtgagcg ggagcagcg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggtttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagc ccaccgtccc catcgtgggc attgttctg ccttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc aggtgga 1017

<210> 526  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 526  
 atgtgggtca tggcgcccc aaccgtctc ctgctgtctt cggcggccct ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120

cgcgggggagc cccgcttcat ctacgtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccggggca tgaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtctctg gaccgcccg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgagc ggagcaggac 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggtttctacc ctgaggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc taccctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgt cgctgctgt atgttagga ggaagagttc aggtgga 1017

<210> 527  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 527  
 atgtgtgtca tggcgcccc aaccgtctc ctgtgtctt cggcggccct ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgc ccggccggc 120  
 cgcgggggagc cccgcttcat ctacgtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccggggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtctctg gaccgcccg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgagc ggagcagcgg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggtttctacc ctgaggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc taccctgag atgggagccg 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgt cgctgctgt atgttagga ggaagagttc aggtgga 1017

<210> 528  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 528  
 atgtgtgtca tggcgcccc aaccgtctc ctgtgtctt cggcggccct ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgc ccggccggc 120  
 cgcgggggagc cccgcttcat ctacgtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccggggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtctctg gaccgcccg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgagc ggagcagcgg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggtttctacc ctgaggagat cacttgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttcccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgttagga ggaagagttc aggtgga 1017

<210> 529  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 529  
 gctcccactc catgaggtat ttctacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgggac acggcggtc 420  
 agatcaccca gcgcaagtgg gagcgggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 530  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 530ggctcccact ccatgaggtta ttctacacc tccgtgtccc ggcccggccg cggggagccc 60  
 cgcttcatct cagtgggcta cgtggacgac accagttcgt tgaggttcga cagcgacgcc 120  
 gcgagtccga gagaggagcc gcgggcgccg tggatagagc agggggggcc ggagtattgg 180  
 gaccggaaca cacagatctt caagaccaac acacagactg accgagagag cctgcggaac 240  
 ctgcgcggct actacaacca gagcgaggcc ggtctcaca ccctccagag catgtacggc 300  
 tgcgacgtgg gcccgacggg gcgctcctc cgcgggcatg accagtacgc ctacgacggc 360  
 aaggattaca tcgacctgaa cgaggacctg cgctcctgga ccgcccgga cacggcggtc 420  
 cagatcaccc agcgcaagtg ggaggcgccc cgtgaggcgg agcagcggag agcctacctg 480  
 gagggcgagt gcgtggagtg gctccgcaga tacctggaga acgggaagga caagctggag 540  
 cgctg 546

<210> 531  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 531  
 atgtggttca tggegccecg aaccgtctc ctgctgctct cggcggccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgttcat ctactgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggccggac gggcgccctc tcgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg gaccgcccg 480  
 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagcgg 540  
 agagcctacc tggaggggca gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacaagctgg agcgcgctg 619

<210> 532  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 532  
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180  
accggaacac acagatctgc aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgcctctcc gcgggcatga ccagtcgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctctggac cgcgcggac acggcggtc 420  
agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 533  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 533  
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180  
accggaacac acagatctac aaggcccagg cacagactga ccgagagaa ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgcctctcc gcgggcatga ccagtcgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctctggac cgcgcggac acggcggtc 420  
agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 534  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 534  
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180  
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
gcgacctggg gccgcacggg cgcctctcc gcgggcatga ccagtcgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctctggac cgcgcggac acggcggtc 420  
agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 535  
<211> 546  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 535

```

gctccactc catgaggtat ttctacacct cegtgtcccg gcccgccgc ggggagcccc 60
gcttcatctc agtgggttac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag aggggagccg cgggcgccgt gggtggagca ggaggggccg gattattggg 180
accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc ctgcggaacc 240
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgcctctcc gccggcatga ccagtacgcc tacgacggca 360
aggattacat gcacctgaac gaggacctgc gctcctggac cggcgccgac acggcggtc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

```

&lt;210&gt; 536

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 536

```

gctccactc catgaggtat ttctacacct cegtgtcccg gcccgccgc ggggagcccc 60
gcttcatctc agtgggttac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240
tgcgggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctctcc gccggcatga ccagtacgcc tacgacggca 360
aggattacat gcacctgaac gaggacctgc gctcctggac cggcgccgac acggcggtc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

```

&lt;210&gt; 537

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 537

```

gctccactc catgaggtat ttctacacct cegtgtcccg gcccgccgc ggggagcccc 60
gcttcatctc agtgggttac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctac aaggcccagg cacaggctga ccgagtgagc ctgcggaacc 240
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgcctctcc gccggcatga ccagtacgcc tacgacggca 360
aggattacat gcacctgaac gaggacctgc gctcctggac cggcgccgac acggcggtc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

```

&lt;210&gt; 538

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 538

```

gctccactc catgaggtat ttctacacct cegtgtcccg gcccgccgc ggggagcccc 60
gcttcatctc agtgggttac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctac aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300

```

gcgacgtggg gccggacggg cgctctctcc gggggcatga ccagtacgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctgc gctcctggac cgccggggac acggcggtc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac aagctggagc 540  
 gcgctg 546

<210> 539  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 539  
 gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcggggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc ggggtatga ccagtccgc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctgc gctcctggac cgccggggac acggcggtc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac aagctggagc 540  
 gcgctg 546

<210> 540  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 540  
 atgctggtca tggcgcccc aaccgtctc ctgctgctct cggcgccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttttaca cctccgtgc ccggccggc 120  
 cgcggggagc ccgcttcat ctactgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggtatgtatg gctgcgactg ggggcgggac gggcgctcc tccggggca tgaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtctctg gaccgcccgc 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagcgg 540  
 agagcctacc tggaggcgga gtgcgtggag tggctcgcga gatactgga gaacgggaag 600  
 gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggtttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagttc aggtgga 1017

<210> 541  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 541  
 gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240

tgcgcggtta ctacaaccag agcgaggcgg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgcccgggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtggagc 540  
 cgcgcg 546

<210> 542

<211> 546

<212> DNA

<213> Homo sapiens

<400> 542

gtctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gttctatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggtta ctacaaccag agcgaggcgg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgcccgggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 543

<211> 546

<212> DNA

<213> Homo sapiens

<400> 543

gtctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagctcc 60  
 gttctatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggtta ctacaaccag agcgaggcgg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgcccgggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 544

<211> 546

<212> DNA

<213> Homo sapiens

<400> 544

gtctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gttctatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggtta ctacaaccag agcgaggcgg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgcccggaac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546



<210> 545  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 545  
 gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gtttcatttc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagattctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgcccgccgac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaaga gctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 546  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 546  
 gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gtttcatttc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagattctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgcccgccgac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaaga gctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 547  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 547  
 gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gtttcatttc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagattctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgcccgccgac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 548  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 548

```

gctccactc catgaggtat ttctacacct cctgttcccg gcccgccgc ggggagcccc 60
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gggggcatga ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctctggac cgccgggac acggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

```

<210> 549  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 549
gctccactc catgaggtat ttctacacct cctgttcccg gcccgccgc ggggagcccc 60
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctcc aagaccaaca cacagactta ccgagaggac ctgcggaccc 240
tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gggggcatga ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctctggac cgccgggac acggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

```

<210> 550<211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 550gctccactc catgaggtat ttctacacct cctgttcccg gcccgccgc ggggagcccc 60
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gggggcatga ccaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctctggac cgccgggac acggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

```

<210> 551  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 551
gctccactc catgaggtat ttctacacct cctgttcccg gcccgccgc ggggagcccc 60
gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gggggcatga ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctctggac cgccgggac acggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480

```

aggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 552  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 552  
gtccccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gtttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtcgag agaggagccg ccggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctctggac cgccgaggac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480  
aggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 553  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 553  
gtccccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gtttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtcgag agaggagccg ccggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctctggac cgccgaggac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 554  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 554  
atgctggtca tggcgccccg aaccgtctc ctgctctct cggcgccct ggccctgacc 60  
gagacctggg ccggtccca ctccatgagg tatttcgaca ccgcatgtc ccggcccggc 120  
cgcggggagc ccgcttcat ctacgtggg tacgtggac acacgcagtt cgtgaggttc 180  
gacagcgac ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac tgaccgagag 300  
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
agcatgtacg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca taaccgtac 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtctctg gaccgcggcg 480  
gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcaggac 540  
agagcctacc tggagggcac gtgcgtggag tggtccgca gatacctgga gaacgggaag 600  
gacacgttg agcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc 720  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 ttttccagtc ccaccgtccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtggcatcgc gagctgtggt cgctgctgtg atgtgttagga ggaagagctc aggtgga 1017

<210> 555  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 555  
 atgtctggtca tggcgccccg aaccgtcttc ctgctgctct cggcgccctt ggccctgacc 60  
 gagacctggg cgggctccc ctccatgagg tatttcgaca ccgccatgtc ccggcccggc 120  
 cggggggagc cccgttcat ctcatgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac tgaccgagag 300  
 aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggcccggc gggcgctcc tcccggggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcggcg 480  
 gacaccggcg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacacgtgag agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctggcgagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 ttttccagtc ccaccgtccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtggcatcgc gagctgtggt cgctgctgtg atgtgttagga ggaagagctc aggtgga 1017

<210> 556  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

<400> 556  
 ttcgacaccg ccatgtcccg gccggccgc ggggagcccc gcttcatctc agtgggctac 60  
 gtggacgaca cgcagttcgt gaggttcgac agcgacgccg cgagtccgag agaggagccg 120  
 cgggcccgtt ggatagagca ggaggggccc gagtattggg accggaacac acagatcttc 180  
 aagaccaaca cacagactta ccgagagaac ctgcggatcg cgctccgta ctacaaccag 240  
 agcgaggccc ggtctcacac cctccagagc atgtacggt gcgacgtggg gccggacggg 300  
 cgctcctcc cggggcataa ccagtacgcc tacgacggca aggattacat cgccctgaac 360  
 gaggacctgc gctcctggac cgcggcggac acccgggctc agatcaccca gcgcaagtgg 420  
 gaggcggccc gtgtggcgga gcaggacaga gctacctgg agggcacgtg cgtggagtgg 480  
 ctccgcagat acctggagaa cgggaaggac acgctggagc gcgcgg 526

<210> 557  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 557  
 gctccactc catgaggtat ttcgacaccg ccatgtcccg gccggccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcccgtt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccc ggtctcacac cctccagagc atgtacggt 300  
 gcgacgtggg gccggacggg cgctcctcc cggggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac acccgggctc 420

agatcaccca ggcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 558  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 558  
 gctcccactc catgaggtat ttcgacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gttcatctc agtgggttac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagacctc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc ggggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctctggac cgcggcggac accgcggctc 420  
 agatcaccca ggcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 559  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 559  
 gctcccactc catgaggtat ttcgacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gttcatctc agtgggttac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctc aagaccaaca cacagactga ccgagagaa ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc ggggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctctggac cgcggcggac accgcggctc 420  
 agatcaccca ggcgaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 560  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 560  
 gctcccactc catgaggtat ttcgacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gttcatctc agtgggttac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc ggggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctctggac cgcggcggac accgcggctc 420  
 agatcaccca ggcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 561

<211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 561  
 gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgcgccggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 562  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 562  
 gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgcgccggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 563  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 563  
 gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgcgccggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcgcggt cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 564  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 564  
 gctccactc catgaggtat ttcgacaccg ccatgtcccg gcccggccgc ggggagcccc 60

```

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgctggagc 540
gcgcgg 546

```

<210> 565  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 565
gctccactc catgaggtat ttgacaccg ccatgtccc gcccggccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgctggagc 540
gcgcgg 546

```

<210> 566  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 566
gctccactc catgaggtat ttgacaccg ccatgtccc gcccggccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggtacca ccaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgctggagc 540
gcgcgg 546

```

<210> 567  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 567
gctccactc catgaggtat ttgacaccg ccatgtccc gcccggccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactga ccgagtgaac ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctctggac cgcggcggac accgcggctc 420

```

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 568  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 568  
 gctccactc catgaggtat ttgacaccg ccatgtcccg gccggccgc ggggagcccc 60  
 gttcatctc agtgggttac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacaggtga cagagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 569  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 569  
 gctccactc catgaggtat ttgacaccg ccatgtcccg gccggccgc ggggagcccc 60  
 gttcatctc agtgggttac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactga cagagagaac ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgcctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcggaccc ccaaagaca cactgaccc accaccccat ctctgacct gaggccacc 600  
 tgaggtgctg ggccctgggc ttctacctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccctca cctgagatg gg 822

<210> 570  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 570atgcgggtca cggcgcccc aacctctc ctgctgctt ggggggcagt ggccctgacc 60  
 gagacctggg cggctccca ctccatgagg tatttctaca cgccatgtc cggcccgcc 120  
 cgcggggagc cccgttcat caccgtggc tacgtggacg acaccagtt cgtgaggtc 180  
 gacagcgacg ccacgagtc gaggtggcg cccggggcg catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcga ccgctccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gtcgacact gggccggac gggcgctcc tccggggca taaccagtta 420  
 gcctacgacg gcaaggatta catgcctg aacgaggacc tgaactctg gaccgggcg 480  
 gacaccggc ctcagatcac ccagctcaag tgggagggc cccgtgtgc ggagcagctg 540  
 agagcctacc tggaggggca gtgcgtggag tggctccgca gatactgga gaacgggaag 600



gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccaccc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 571

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 571

atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgccatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat caccgtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccgaggtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggca taaccagtta 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccgagg ctacatcac ccagctcaag tgggagggcg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccaccc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 572

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 572

atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgccatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat caccgtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccgaggtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggca taaccagtta 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccgagg ctacatcac ccagcgaag tgggagggcg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccaccc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 573

<211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 573  
 atgcgggtca cggcgccccg aacctctctc ctgtctctct gggggggcagt ggcctgacc 60  
 gagacctggg cgggtccca ctccatgagg tattttctaca ccgcatgtc cggcccggc 120  
 cgcgggggagc cccgttcat caccgtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcga ccgcgtccg ctactacaac cagagcgagg cgggtctca cacttggcag 360  
 acgatgtatg gctgcgacct ggggccggac gggcgctcc tcccgggca tgaccagtc 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctctg gaccggcg 480  
 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacgca tgaggggctg ccaaagcccc tcacctgag atgggagcca 900  
 ttttccaat ccacgtccc catcgtgggc attgtgtctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctgtgtg atgttagga ggaagagctc aggtgga 1017

<210> 574  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 574  
 gctccactc catgaggtat ttctacaccg ccatgtccg gccggcgcg ggggagcccc 60  
 gcttcacac cgtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcca 120  
 cgagtcgag gatggcgccc cggcgccat gtagagagca ggaggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gccggacggg cgctctctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gtcctggac cggcgcgac acccggtc 420  
 agatcaccca gtcaagtgg gaggcggccc gtgtggcgga gcagctgaga gctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 575  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 575  
 atgcgggtca cggcgccccg aacctctctc ctgtctctct gggggggcagt ggcctgacc 60  
 gagacctggg cgggtccca ctccatgagg tattttctaca ccgcatgtc cggcccggc 120  
 cgcgggggagc cccgttcat caccgtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcga ccgcgtccg ctactacaac cagagcgagg cgggtctca cacttggcag 360  
 acgatgtatg gctgcgacct ggggccggac gggcgctcc tcccgggca taaccagtta 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctctg gaccggcg 480  
 gacaccggc ctcatcac ccagctcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctgcc tggaggcgga gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720

tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagc ccacgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctgctgtg atgttagga ggaagagctc aggtgga 1017

<210> 576  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 576  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcca 120  
 cgagtcgag gatggcgccc cgggcgccaat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacctggg gccggacggg cgctctctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac acccgggctc 420  
 agatcaccca gctcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 577  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 577  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcca 120  
 cgagtcgag gatggcgccc cgggcgccaat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaa ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacctggg gccggacggg cgctctctcc gcgggatatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac acccgggctc 420  
 agatcaccca gctcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 578  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 578  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcca 120  
 cgagtcgag gatggcgccc cgggcgccaat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaa ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacctggg gccggacggg cgctctctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac acccgggctc 420  
 agatcaccca gctcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcggaccc ccaaagaca cagtgaccc accacccat ctctgacct gaggccacc 600  
 tgaggtgctg ggccctgggc ttctacctg cggagatcac actgacctg cagcgggatg 660

gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccctca ccctgagatg gg 822

<210> 579  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 579  
 atgtggtca tggcgccccg aaccgtctc ctgctgctct cggcggccct ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat ctgagtggtc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 tggatgtatg gctgcgacgt ggggcccggac gggcgccctc tccgcgggta taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccgtcc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc aggtgga 1017

<210> 580  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 580  
 atgtggtca tggcgccccg aaccgtctc ctgctgctct cggcggccct ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat ctgagtggtc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 tggatgtatg gctgcgacgt ggggcccggac gggcgccctc tccgcgggta taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccgtcc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc aggtgga 1017

<210> 581  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 581

```

gctccactc catgaggtat ttctacaccg ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaatattggg 180
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg atgtatggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggtataa ccagttcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcgcggaccc ccaaagaca catgtgacct accaccccat ctctgacct gagggcaccc 600
tgaggtgctg ggccctgggc ttctacctg cggagatcac actgacctgg cagcgggatg 660
gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga gacagaacct 720
tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780
tacagcatga ggggctgccg aagccctca cctgagatg gg 822

```

&lt;210&gt; 582

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 582

```

gctccactc catgagcat ttctacaccg ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaatattggg 180
accggaacac acagaactgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg atgtatggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggtataa ccagttcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 583

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 583

```

atgctggtca tggcgcccc aaccgtctc ctgctgctct cggcgccct gccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttctaca ccgccgtgtc ccggcccgcc 120
cgcggggagc ccgcttcat ctgagtggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggaatatt gggaccgga cacacagatc tgcaagacca acacacagac tgaccgagag 300
agcctgcgga acctgcggc ctactacaac cagagcgagg ccgggtctca caccctccag 360
agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggta taaccagttc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgagg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600
gagacgctgc agcgcggc 619

```

&lt;210&gt; 584

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 584

gctccactc catgaggtat ttctacaccg ccgtgtcccg gcccgccgc ggggagcccc 60  
 gttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gaattattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcggtataa ccagttcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcgccggac acccgggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 585  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 585  
 gctccactc catgaggtat ttctacaccg ccgtgtcccg gcccgccgc ggggagcccc 60  
 gttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gaattattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcggtataa ccagttcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcgccggac acccgggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 586  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 586  
 atgcgggtca cggcgcccc aaccgtctc ctgctgctt cgggagccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tattttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt gggccgggac gggcgctcc tccgcgga tgaccgtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcgcg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtg 540  
 agagcctacc tggaggccct gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catctgggc attgtgtgtg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctactgtg atgtgtagga ggaagagtc aggtgga 1017

<210> 587  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 587

```

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gttctatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gatggcgccc cgggcccacat ggatagagca ggagggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcggggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctctcc gccggcatga ccagtccgcc tacgacggca 360
aagattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcgccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 588

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 588

```

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gttctatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gatggcgccc cgggcccacat ggatagagca ggagggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcggggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctctcc gccggcatga ccagtccgcc tacgacggca 360
aggattacat cgcctgaat gaggacctga gctcctggac cgcggcggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcgccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 589

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 589

```

gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gttctatcgc agtgggctac gtggacgaca cgcagttcgt gccgttcgac agcgacgccg 120
cgagtccgag gatggcgccc cgggcccacat ggatagagca ggagggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcggggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctctcc gccggcatga ccagtccgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcgccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 590

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 590

```

atgcgggtca cggcgccccg aaccgtctc ctgctgctc cgggagccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tattttctaca ccgcatgtc ccggcccggc 120
cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag 300

```

agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca catcatccag 360  
 aggatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcggtta tgaccagtcc 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg ccttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 591  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 591  
 atgcgggtca cggcgccccg aaccgtctc ctgctgtct cgggagccct ggccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc cggcccggc 120  
 cgcggggagc cccgcttcat ctcatgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcggtta tgaccagtcc 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg ccttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 592  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 592  
 atgcgggtca cggcgccccg aaccgtctc ctgctgtct cgggagccct ggccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc cggcccggc 120  
 cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcggtta tgaccagtcc 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900



tettccagct ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
gtgtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 593  
<211> 945  
<212> DNA  
<213> Homo sapiens

<400> 593  
ggctccact ccatgaggta ttctacacc gccatgtccc ggcccggccg cggggagccc 60  
cgcttcatcg cagtgggcta cgtggacgac acccagttcg tgaggttcga cagcgacgcc 120  
gcgagtccga ggatggcgcc ccgggcgcca tggatagagc aggaggggccc ggagtattgg 180  
gaccgggaga cacagatctc caagaccaac acacagactt accgagagag cctgcggaac 240  
ctgcgcggct actacaacca gagcgaggcc gggctctaca cctccagag gatgtacggc 300  
tgcgacgtgg ggccggacgg gcgcctcctc cgcgggcatg accagtccgc ctacgacggc 360  
aaggattaca tcgcctgaa cgaggacctg agctcctgga ccgcggcgga cacggcggct 420  
cagatcaccg agcgcaagtg ggaggcgccc cgtgtggcgg agcagctgag agcctacctg 480  
gagggcctgt gcgtggagtg gctccgcaga tacctggaga acgggaagga gacgtgcag 540  
cgcgcggaacc cccaaagac acatgtgacc caccaccca tctctgacca tgaggccacc 600  
ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg gcagcgggat 660  
ggcgaggacc aaactcagga caccgagctt gtggagacca gaccagcagg agatagaacc 720  
ttccagaagt gggcagctgt ggtgtgcct tctggagaag agcagagata cacatgccat 780  
gtacagcatg aggggctgcc gaagcccctc accctgagat gggagccatc ttcccagtc 840  
accatcccca tcgtgggcat tgttctggc ctggtgtcc tagcagttgt ggtcatcgga 900  
gctgtggtcg ctactgtgat gttaggagg aagagctcag gtgga 945

<210> 594  
<211> 945  
<212> DNA  
<213> Homo sapiens

<400> 594  
ggctccact ccatgaggta ttctacacc gccatgtccc ggcccggccg cggggagccc 60  
cgcttcatcg cagtgggcta cgtggacgac acccagttcg tgaggttcga cagcgacgcc 120  
gcgagtccga ggatggcgcc ccgggcgcca tggatagagc aggaggggccc ggagtattgg 180  
gaccgggaga cacagatctc caagaccaac acacagactt accgagagag cctgcggaac 240  
ctgcgcggct actacaacca gagcgaggcc gggctctaca cctccagag gatgtttggc 300  
tgcgacgtgg ggccggacgg gcgcctcctc cgcgggtatg accagtccgc ctacgacggc 360  
aaggattaca tcgcctgaa cgaggacctg agctcctgga ccgcggcgga cacggcggct 420  
cagatcaccg agcgcaagtg ggaggcgccc cgtgaggcgg agcagctgag agcctacctg 480  
gagggcctgt gcgtggagtg gctccgcaga tacctggaga acgggaagga gacgtgcag 540  
cgcgcggaacc cccaaagac acatgtgacc caccaccca tctctgacca tgaggccacc 600  
ctgaggtgct gggccctggg cttctaccct gcggagatca cactgacctg gcagcgggat 660  
ggcgaggacc aaactcagga caccgagctt gtggagacca gaccagcagg agatagaacc 720  
ttccagaagt gggcagctgt ggtgtgcct tctggagaag agcagagata cacatgccat 780  
gtacagcatg aggggctgcc gaagcccctc accctgagat gggagccatc ttcccagtc 840  
accatcccca tcgtgggcat tgttctggc ctggtgtcc tagcagttgt ggtcatcgga 900  
gctgtggtcg ctactgtgat gttaggagg aagagctcag gtgga 945

<210> 595  
<211> 945  
<212> DNA  
<213> Homo sapiens

<400> 595  
ggctccact ccatgaggta ttctacacc gccatgtccc ggcccggccg cggggagccc 60  
cgcttcatcg cagtgggcta cgtggacgac acccagttcg tgaggttcga cagcgacgcc 120

gcgagtccga ggatggcgcc ccgggcgcca tggatagagc aggagggggc ggagtattgg 180  
 gaccgggaga cacagatctc caagaccaac acacagactt accgagagag cctgcggaac 240  
 ctgcgggct actacaacca gagcgaggcc ggggtctaca ccctccagag catgtacggc 300  
 tgcgacgtgg ggccggacgg gcgcctctc cgcgggcatg accagtccgc ctacgacggc 360  
 aaggattaca tcgcctgaa cgaggacctg agctcctgga ccgcgcgga cacggcggct 420  
 cagatcaccc agcgcaagtg ggaggcggcc cgtgaggcgg agcagtggag agcctacctg 480  
 gagggcctgt gcgtggagtg gctccgaga tacctggaga acgggaagga gacgctgcag 540  
 cgcgcggacc ccccaaagac acatgtgacc caccacca tctctgacca tgaggccacc 600  
 ctgaggtgct gggcctggg cttctacct cgggagatca cactgacctg gcagcgggat 660  
 ggcgaggacc aaactcagga caccgagctt gtggagacca gaccagcagg agatagaacc 720  
 ttccagaagt gggcagctgt ggtggtgcct tctggagaag agcagagata cacatgccat 780  
 gtacagcatg aggggctgcc gaagcccctc accctgagat gggagccatc ttccagtc 840  
 accatcccca tcgtgggcat tgttctgccc ctggtgtccc tagcagttgt ggtcatcgga 900  
 gctgtggtcg ctactgtgat gtgtaggagg aagagctcag gtgga 945

<210> 596  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 596  
 atgcgggtca cggcgccccg aaccgtctc ctgctgtct cgggagccct ggccctgacc 60  
 gagacctggg ccggctccca ctccatgagg tatttttaca ccgcatgtc ccggcccgcc 120  
 cgcggggagc ccgcttcat ctgagtggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcccggac gggcgccctc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggacctg ggcttctacc ctgcggagat cactactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 ttttccagt ccaccatccc catcgtgggc attgttctg ccttggtgt ctagcagtt 960  
 gtggtcatcg gagctgtggt cgtactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 597  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 597  
 atgcgggtca cggcgccccg aaccgtctc ctgctgtct cgggagccct ggccctgacc 60  
 gagacctggg ccggctccca ctccatgagg tatttttaca ccgcatgtc ccggcccgcc 120  
 cgcggggagc ccgcttcat ctgagtggc tacgtggacg acacgagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtcc gagagaggag ccgcgggccc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcccggac gggcgccctc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaagatta catgcacctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggacctg ggcttctacc ctgcggagat cactactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780

ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc attgttctg ccttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 598  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 598  
 atgcgggtca cggcgccccg aaccgtctc ctgctgtct cgggagccct ggcctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttttaca ccgcatgtc cggcccggc 120  
 cgcggggagc ccgcttcat ctcatgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggagc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccgga caccagatc tgcaagacca acacacagac ttaccgagag 300  
 agcttcgga acctgcgag ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcccggc ggggcctcc tccgaggga tgaccgtac 420  
 gctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggc 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg ccctgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc attgttctg ccttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 599  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 599  
 atgcgggtca cggcgccccg aaccgtctc ctgctgtct cgggagccct ggcctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttttaca ccgcatgtc cggcccggc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggatggc ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccgga caccagatc tacaagacca acacacagac ttaccgagag 300  
 agcttcgga acctgcgag ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcccggc ggggcctcc tccgaggga tgaccgtcc 420  
 gctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggc 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg ccctgaggc ggagcagtg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc attgttctg ccttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 600  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 600

```

gctcccaact catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag gatggctccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatctac aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcgccggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 601

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 601

```

atcggggtca cggcgccccg aaccgtctc ctgtgtctc cgaggacct ggcctgacc 60
gagacctggg ccggctccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgagagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcccggc gggcgctcc tcccggggca tgaccagtc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcatgcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtg 540
agagcctacc tggagggcct gtgcgtggac gggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acatatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccaccatccc catcgtgggc attgttctg ccttggtgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagtc aggtgga 1017

```

&lt;210&gt; 602

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 602

```

atcggggtca cggcgccccg aaccgtctc ctgtgtctc cgaggacct ggcctgacc 60
gagacctggg ccggctccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgagagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag 300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360
aggatgtatg gctgcgacgt ggggcccggc gggcgctcc tcccggggta tgaccagtc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcatgcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acatatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900

```

tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 603  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 603  
atgcggtca cggcgccccg aaccgtctc ctgtgtctct cgggagccct ggccctgacc 60  
gagacctggg cgggtccca ctccatgagg tattttctaca ccgcatgtc cggccccgc 120  
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
gacagcgacg cgcgagtcg gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca caccctccag 360  
aggatgtacg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca tgaccagtc 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtg 540  
agagcctacc tggagggcct gtgcgtggag tcgtccgca gatactgga gaacgggaag 600  
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cactctgacc 720  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atgggagcca 900  
tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 604  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 604  
atgcggtca cggcgccccg aaccgtctc ctgtgtctct cgggagccct ggccctgacc 60  
gagacctggg cgggtccca ctccatgagg tattttctaca ccgcatgtc cggccccgc 120  
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
gacagcgacg cgcgagtcg gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag 300  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca caccctccag 360  
aggatgtacg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca tgaccagtc 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtg 540  
agagcctacc tggagggcct gtgcgtggag tggtccgca gatactgga gaacgggaag 600  
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cactctgacc 720  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atgggagcca 900  
tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 605  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 605

```

atgcggggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct ggccctgacc 60
gagacctggg ccggtcccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120
cgcgggggagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacggaac atgaaggcct ccgcgcagac ttaccgagag 300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360
aggatgtatg gctgcgacct ggggcccggc gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgctggag tggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atgggagcca 900
tttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

```

&lt;210&gt; 606

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 606

```

atgcggggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct ggccctgacc 60
gagacctggg ccggtcccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120
cgcgggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacggaac atgaaggcct ccgcgcagac ttaccgagag 300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcccggc gggcgccctc tccgcgggta ccaccaggac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgctggag tggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atgggagcca 900
tttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

```

&lt;210&gt; 607

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 607

```

atgcggggtca cggcgccccg aaccgtcctc ctgctgctct cgggagccct ggccctgacc 60
gagacctggg ccggtcccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120
cgcgggggagc ccgcttcat ctcagtgggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcccggc gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgctggag tggctccgca gatacctgga gaacgggaag 600

```

gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtgtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 608  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 608  
 atgcgggtca cgcgccccg aaccgtctc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccgc 120  
 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtg 540  
 agagcctacc tggagggcct gtgcgtggac gggtccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtgtggtgc tttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 609  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 609  
 atgcgggtca cgcgccccg aaccgtctc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccgc 120  
 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtcc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtgtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 610

<211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 610

```

atgcggtca cggcgcccc aaccgtctc ctgtgtctt cgggagccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca catcatccag 360
aggatgtatg gctgcgacgt ggggcgggac ggggcctcc tccggggta tgaccagtc 420
gcctacgacg gcaaggatta catgcctctg aacgaggacc tgagctctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgctgc agcgcggga ccccccag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggcctg gcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggtg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccaccatccc catcgtgggc attgtgtctg gctggtgtg cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

```

<210> 611  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 611

```

atgcggtca cggcgcccc aaccgtctc ctgtgtctt cgggagccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgttcat ctcagtgggc tacgtggacg acacgagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcgggac ggggcctcc tccggggca tgaccagtc 420
gcctacgacg gcaaggatta catgcctctg aacgaggacc tgagctctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgctgc agcgcggga ccccccag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggcctg gcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggtg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccaccatccc catcgtgggc attgtgtctg gctggtgtg cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

```

<210> 612  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 612

```

gctcccactc catgaggtat ttctacaccg ccattgtccc gcccgccgc ggggagcccc 60
gcttcatcgc agtgggttac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gatggcgccc cgggcgcat ggaatagagca ggagggggcg gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300

```



gcgacgtggg gccggacggg cgcctctcc gcgggcatga ccagtccgc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcaga 540  
 gcgcgg 546

<210> 613  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 613  
 atgcgggtca cggcgccccg aaccgtctc ctgctgctct cgggagccct ggcctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc cggcccggc 120  
 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggatggcg cccggggcg catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgagc ggggcccggac gggcgctcc tccgcgggta tgaccagtc 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacce catctctgac 660  
 catgaggcca cctgagggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agacagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgtactgtg atgttagga ggaagagctc aggtgga 1017

<210> 614  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 614  
 gaggtatttc tacaccgcca tgtccggcc cggccgcggg gagccccgt tcacgcagt 60  
 gggctacgtg gacgacccc agttcgtgag gttcgacagc gacgccgga gtccgaggat 120  
 ggcgccccgg gcgcatgga tagagcagga ggggcgggag tattgggacc gggagacaca 180  
 gatctccaag accaacacac agacttaccg agagagcctg cggaacctgc gcggctacta 240  
 caaccagagc gaggcgggt ctcacacct ccagaggatg ttggtgctgc acgtggggcc 300  
 ggacggggcg ctctcccg ggcatgacca gtcgcctac gacggcaagg attacatgc 360  
 cctgaacgag gacctgagc cctggaccgc ggcggacacg gcggctcaga tcaccagcg 420  
 caagtgggag gcggcccgtg aggcggagca gtggagagcc tacctggagg gcctgtgcgt 480  
 ggagtggctc gcagatacc tggagaacgg gaaggagacg ctgcagcgc 529

<210> 615  
 <211> 895  
 <212> DNA  
 <213> Homo sapiens

<400> 615  
 atgcgggtca cggcgccccg aaccgtctc ctgctgctct cgggagccct ggcctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc cggcccggc 120  
 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggatggcg cccggggcg catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gatacagatc tccaagacca acacacagac ttaccgagag 300

```

agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggccggac ggggcctcc tccggggca tgaccagtcc 420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atggg 895

```

<210> 616  
 <211> 895  
 <212> DNA  
 <213> Homo sapiens

```

<400> 616
atgcgggtca cggcgcccc aaccgtctc ctgtgtctt cgggagccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccgge 120
cgcggggagc ccgcttcat ctactgggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggccggac ggggcctcc tccggggca tgaccagtcc 420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atggg 895

```

<210> 617  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

```

<400> 617
gaggtatttc tacaccgcca tgtccggcc cggccgcggg gagccccgt tcacgcagt 60
gggctacgtg gacgacacc agttcgtgag gttcgacagc gacgccgca gtccgaggat 120
ggcggcccg ggcctatgga tagagcagga ggggccggag tattgggacc gggagacaca 180
gatctccaag accaacacac agacttaccg agagagcctg cggaacctgc gcggctacta 240
caaccagagc gaggccgggt ctacaccct ccagaggatg tacggctgcg acgtggggcc 300
ggacgggcgc ctctccgcg ggcataacca gtacgcctac gacggcaagg attacatcgc 360
cctgaacgag gacctgagct cctggaccgc ggcggacacg gcggctcaga tcaccagcg 420
caagtgggag gcggcccgtg aggcggagca gtggagagcc tacctggagg gcctgtgcgt 480
ggagtggctc cgcagatacc tggagaacgg gaaggagacg ctgcagcgc 529

```

<210> 618  
 <211> 533  
 <212> DNA  
 <213> Homo sapiens

```

<400> 618
gaggtatttc tacaccgcca tgtccggcc cggccgcggg gagccccgt tcacgcagt 60
gggctacgtg gacgacacc agttcgtgag gttcgacagc gacgccgca gtccgaggat 120

```

```

ggcgccccgg gcgcatgga tagagcagga ggggccggag tattgggacc ggaacacaca 180
gatctccaag accaacacac agacttaccg agagagcctg cggaacctgc gcggctacta 240
caaccagagc gaggccgggt ctacaccct ccagaggatg tacggctgcg acgtggggcc 300
ggacggggcg ctctcccgcg ggtatgacca gtccgcctac gacggcaagg attacatcgc 360
cctgaacgag gacctgagct cctggaccgc ggcggacacg gcggctcaga tcaccagcg 420
caagtgggag gcggcccggt tggcggagca gctgagagcc tacctggagg gcctgtgcgt 480
ggagtggctc cgcagatacc tggagaacgg gaaggagacg ctgcagcgcg cgg 533

```

<210> 619  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 619
gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccgccgc ggggagcccc 60
gcttcategc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120
cgagtccgag gatggcgccc cgggcgcat gtagagagca ggagggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtctggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 620  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 620
gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccgccgc ggggagcccc 60
gcttcategc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120
cgagtccgag gatggcgccc cgggcgcat gtagagagca ggagggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac cgcggcggac aaggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 621  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 621
gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccgccgc ggggagcccc 60
gcttcategc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120
cgagtccgag gatggcgccc cgggcgcat gtagagagca ggagggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacctggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540

```

gcgcgg

546

&lt;210&gt; 622

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 622

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gatggcgccc cggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagacg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctctcc gcgggcatga ccagtccgc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

&lt;210&gt; 623

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 623

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gatggcgccc cggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaa ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctctcc gcggtatga ccagtccgc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

&lt;210&gt; 624

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 624

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag agaggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctctcc gcgggcatga ccagtacgc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

&lt;210&gt; 625

&lt;211&gt; 546

&lt;212&gt; DNA

<213> Homo sapiens

<400> 625

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc ggggcatga ccagtccgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcgccggac acggcggtc 420
agatcaccca gcgcaagtgg gaggggccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 626

<211> 546

<212> DNA

<213> Homo sapiens

<400> 626

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc ggggcatga ccagtccgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcgccggac acggcggtc 420
agatcaccca gcgcaagtgg gaggggccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 627

<211> 546

<212> DNA

<213> Homo sapiens

<400> 627

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc ggggcatga ccagtccgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcgccggac acggcggtc 420
agatcaccca gcgcaagtgg gaggggccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 628

<211> 546

<212> DNA

<213> Homo sapiens

<400> 628

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180

```

accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacctggg gccggacggg cgctctctcc gggggcataa ccagttagcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcgggcgac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgggcc gtagggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 629  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 629  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gttctatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagaggac ctgcggaccc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gggggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcgggcgac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgggcc gtagggcgga gcagtgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 630  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 630  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gttctatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gggggatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcgggcgac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgggcc gtagggcgga gcagtgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 631  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 631  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gttctatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gggggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcgggcgac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgggcc gtagggcgga gcagtgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540

gcgcgg

546

&lt;210&gt; 632

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 632

```

atgcgggtca cggcgccccg aaccgtctc ctgctgctct cgggagccct ggccctgacc   60
gagacctggg cgggtccca ctccatgagg tttttctaca cgccatgtc cggccccggc   120
cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc   180
gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga gcaggagggg   240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag   300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag   360
aggatgtacg gctgcgacgt ggggcccggc gggcgccctc tccgcgggca tgaccagtc   420
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg gaccgcggcg   480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg   540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag   600
gagacgtgc agcgcgcgg                                     619

```

&lt;210&gt; 633

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 633

```

gtccccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc   60
gtttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg   120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg   180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc   240
tgccggtgta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct   300
gcgacgtggg gccggacggg gcctcctcc ggggcatga ccagtcgcc tacgacggca   360
aggattacat gcctctgaac gaggacctga gctcctggac cgcggcggac accgcggctc   420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg   480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc   540
gcgcgg                                     546

```

&lt;210&gt; 634

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 634

```

gtccccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc   60
gtttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg   120
cgagtccgag gatggcggc cgggcgccat ggatagagca ggaggggccc gagtattggg   180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc   240
tgccggtgta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct   300
gcgacgtggg gccggacggg gcctcctcc ggggcatga ccagtcgcc tacgacggca   360
aggattacat gcctctgaac gaggacctga gctcctggac cgcggcggac accgcggctc   420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg   480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc   540
gcgcgg                                     546

```

&lt;210&gt; 635

&lt;211&gt; 546

<212> DNA  
<213> Homo sapiens

<400> 635  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacggactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 636  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 636  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 637  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 637  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 638  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 638  
atgcgggtca cggcgccccg aaccgtctc ctgctgctct cgggagccct ggccctgacc 60  
gagacctggg ccggctccca ctccatgagg tattttctaca ccgcatgtc ccggccccgc 120



```

cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcccggac gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgg 619

```

<210> 639  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

```

<400> 639
atgcgggtca cggcgccccg aaccgtctc ctgctgctct cgggagccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccacgagtc gaggaaggag ccgcggggcg catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcccggac gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgg 619

```

<210> 640  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

```

<400> 640
atgcgggtca cggcgccccg aaccgtctc ctgctgctct cgggagccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat ctcaagtgggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcccggac gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagccc tcacctgag atgggagcca 900
tcttcccagt ccacatccc catcgtgggc attgttctg ccttggtgt ctagcagtt 960
gtggtcatcg gagctgtgt cgtactgtg atgtgtagga ggaagagtc aggtgga 1017

```

<210> 641  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 641

```

atgctgggtca cggcgccccg aaccgtcctc ctgctgtctc cgggagccct ggccctgacc    60
gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc ccggcccggc    120
cgccggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc    180
gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg    240
ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag    300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag    360
agcatgtacg gctgcgacgt ggggcccggc gggcgccctc tccgcggtg tgaccagtcc    420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctctg gaccgcggcg    480
gacacggcgg ctacagatca ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg    540
agagcctacc tggagggcct gtgcgtggag tggtccgca gatacctgga gaacgggaag    600
gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac    660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc    720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca    780
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca    900
tcttccagc ccaccatccc catcgtgggc attgttctg gcttggtgt cctagcagtt    960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga    1017

```

&lt;210&gt; 642

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 642

```

gtcctcactc catgaggtat ttctacaccg ccatgtcccc gcccgccgc ggggagcccc    60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg    120
cgagtccgag gatggcgccc cggcgccat ggatagagca ggaggggccc gagtattggg    180
accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc    240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct    300
gcgacgtggg gccggacggg cgctctctc gcgggcatga ccagtcgcc tacgacggca    360
aggattacat gcctgaac gaggacctga gctcctggac cgcgcgggac acggcggtc    420
agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg    480
agggcctgtg cgtggagtgg ctcccgat acctggagaa cgggaaggag acgctgcagc    540
gcgcggg                                         546

```

&lt;210&gt; 643

&lt;211&gt; 615

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 643

```

gggtcacggc gccccgaacc gtctctctgc tgctctcggg agccttgccc ctgaccgaga    60
cctgggcccgc ctccactcc atgaggtatt ttacaccgc catgtcccgc ccggcccgcg    120
gggagccccg cttcatcgca gtgggctacg tggacgacac ccagttcgtg aggttcgaca    180
gcgacgccgc gagtccgagg atggcgcccc gggcgccatg gatagagcag gaggggcccg    240
agtattggga ccgggagaca cagatctcca agaccaacac acagacttac cgagtgaacc    300
tgcggaacct gcgcggctac tacaaccaga gcgaggccgg gtctcacacc ctccagagga    360
tgtacggctg cgacgtgggg ccggacgggc gcctctccg cgggcatgac cagtccgcct    420
acgacggcaa ggattacatc gcctgaacg aggacctgag ctctggacc gcggcgga    480
cggcggtcga gatcacccag cgcaagtggg aggcggcccgc tgaggcgag cagtggagag    540
cctacctgga ggccctgtgc gtggagtggc tccgcagata cctggagaac gggaaggaga    600
cgctgcagcg gcgcg                                         615

```

&lt;210&gt; 644

&lt;211&gt; 619

&lt;212&gt; DNA

<213> Homo sapiens

<400> 644

```

atgcgggtca cgcgccccg aaccgtctc ctgtctctt cgggagccct ggcctgacc   60
gagacctggg ccggctcca ctccatgagg tatttctaca ccgcatgtc ccggccggc   120
cgcggggagc cccgttcat cgagtgggc tacgtggagc acaccagtt cgtgaggtc   180
gacagcgacg ccgagatcc gaggatggc cccggggcg catggataga gcaggagggg   240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag   300
agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca caccctccag   360
aggatgtacg gctgcgagt ggggccggg gggcgctcc tccgcgggca taaccagttc   420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctctg gaccgcggc   480
gacacggcgg ctcagatcac ccagcgcaag tgggagggc cccgtgaggc ggagcagtg   540
agagcctacc tggagggcct gtgcgtggg tggctccga gatactgga gaacgggaag   600
gagacgtgc agcgcgcg   619

```

<210> 645

<211> 546

<212> DNA

<213> Homo sapiens

<400> 645

```

gtccccactc catgaggtat ttctacaccg ccatgtccc gcccgccgc ggggagcccc   60
gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcaac agcgacgcc   120
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg gattattgg   180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc   240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggc   300
gcgacgtggg gccggacggg gcctctctc cggggcatga ccagtcgcc tacgacggca   360
aggattacat gccttgaa gaggacctga gctctggac cgcggcggac acggcggtc   420
agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagtggaga gcctacctg   480
agggcctgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgtgcagc   540
gcgcgg   546

```

<210> 646

<211> 546

<212> DNA

<213> Homo sapiens

<400> 646

```

gtccccactc catgaggtat ttctacaccg ccatgtccc gcccgccgc ggggagcccc   60
gcttcatctc agtgggctac gtggacgaca cgagttcgt gaggttcgac agcgacgcc   120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattgg   180
accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcggaacc   240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggc   300
gcgacgtggg gccggacggg gcctctctc cggggcatga ccagtcgcc tacgacggca   360
aggattacat gccttgaa gaggacctga gctctggac cgcggcggac acggcggtc   420
agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagtggaga gcctacctg   480
agggcctgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgtgcagc   540
gcgcgg   546

```

<210> 647

<211> 546

<212> DNA

<213> Homo sapiens

<400> 647

```

gtccccactc catgaggtat ttctacaccg ccatgtccc gcccgccgc ggggagcccc   60
gcttcatctc agtgggctac gtggacgaca cgagttcgt gaggttcgac agcgacgcc   120

```

cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcagggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 648  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 648  
 gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcagggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 649  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 649  
 gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcagggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 650  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 650  
 gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcagggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 651  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 651  
atgggggtca cggcgccccg aaccgtctc ctgtctctct cgggagccct ggccctgacc 60  
gagacctggg cgggtccca ctccatgagg tatttctaca cggccatgtc cggccccggc 120  
cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
gacagcgacg cgcgagtcg gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
ccggagtatt gggaccggga gacacagatc tgcaagacca acacacagac ttaccgagag 300  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca caccctccag 360  
aggatgtacg gctgcgacgt ggggcccggac gggcgccctc tccgcgggca tgaccagtcc 420  
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg gaccgcggcg 480  
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540  
agacctacc tggagggcct gtgcgtggag tggtccgca gatactgga gaacgggaag 600  
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
catgaggcca cctgagggtg ctgggacctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaactcag gacaccgagc ttgtggagac cagaccagca 780  
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgtactgtg atgtgtagga ggaagagtc aggtgga 1017

<210> 652  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 652  
gtccccactt catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gttctatcgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acggaacatg aaggcctccg cgcagactta ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300  
gcgacctggg gccggacggg gcctcctcc ggggcatga ccagtcgcc tacgacggca 360  
aggattacat gccctgaac gaggacctga gctctggac cgcggcggac acggcggtc 420  
agatcaccca gcacaagtgg gaggggccc gtgaggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 653  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 653  
gtccccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gttctatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
ggacgtggg gccggacggg gcctcctcc cgggcatga ccagtcgcc tacgacggca 360  
aggattacat gccctgaac gaggacctga gctctggac cgcggcggac acggcggtc 420

```

agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcggacc cccaaagaca catgtgacc accacccat ctctgacct gaggccacc 600
tgaggtgctg ggcctgggc ttctaccctg cggagatcac actgacctgg cagcgggatg 660
gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga gatagaacct 720
tccagaagtg ggcagctgtg gtgtgcctt ctggagaaga gcagagatac acatgccatg 780
tacagcatga ggggctgccg aagcccctca cctgagatg gg 822

```

<210> 654  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 654
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 655  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 655
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 656  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

```

<400> 656
gctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540

```

gcgcggaccc cccaaagaca catgtgaccc accaccccat ctctgacat gaggccaccc 600  
 tgaggtgctg ggccttgggc ttctaccctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtgtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccctca cctgagatg gg 822

<210> 657  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 657  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg gcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat gccttgaac gaggacctgc gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcggaccc cccaaagaca catgtgaccc accaccccat ctctgacat gaggccaccc 600  
 tgaggtgctg ggccttgggc ttctaccctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtgtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccctca cctgagatg gg 822

<210> 658  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 658  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcggcc cggcgccat ggatagagca ggaggggccg gattattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg gcctcctcc gcgggcatga ccagttagcc tacgacggca 360  
 aggattacat gccttgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 659  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 659  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cggcgccgt ggatagagca ggaggggccg gattattggg 180  
 accgggagac acagatctcc aagatcaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg gcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat gccttgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420

agatcaccca ggcgaagtgg gagggcgccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 660  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 660gtctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gtttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gatggcgccc cgggcgccat ggatagagca ggaggggccc gattattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggtc 420  
 agatcaccca ggcgaagtgg gagggcgccc gtcaggcgga gcagtgagga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 661  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 661  
 atcggggtca cggcgcccc aacctctctc ctgtctctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc cggccccgc 120  
 cgcggggagc cccgcttcat ctgagtggtc tacgtggacg gcacccagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gagggacggg ccccgggcgc cgtggataga gcaagagggg 240  
 ccgaggtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcttcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcagct ggggcgggac gggcgccctc tccgcgggca tgaccagtc 420  
 gcctacgacg gcaaggatta catgcctctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccggcg ctcatgac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acatgtgta cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacgca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagc ccacctccc catcgtgggc attgttctg gcctggtgt ctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 662  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 662  
 gtctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gtttcactc agtgggctac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gacggagccc cgggcgccgt ggatagagca agaggggccc gattattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta cagagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggtc 420



agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 663  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 663  
 atgcggtca cggcgccccg aacctctctc ctgtgtctt ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca ctccgtgtc cggccccggc 120  
 cgcggggagc cccgttcat ctactgggc tacgtggacg gcaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggcaggag ccccgggcgc cgtggataga gcaagagggg 240  
 ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgacgt ggggcccggac gggcgccctc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catgcctctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccgcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccga gacacctgga gaacgggaag 600  
 gagacgtgc agcgcggga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccatccc catcgtgggc attgtgtctg gcttggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 664  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 664  
 atgcggtca cggcgccccg aacctctctc ctgtgtctt ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca ctccgtgtc cggccccggc 120  
 cgcggggagc cccgttcat ctactgggc tacgtggacg gcaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggcaggag ccccgggcgc cgtggataga gcaagagggg 240  
 ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcccggac gggcgccctc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catgcctctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccgcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccga gacacctgga gaacgggaag 600  
 gagacgtgc agcgcggga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccatccc catcgtgggc attgtgtctg gcttggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 665  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 665

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcattgc agtgggctac gtggacggca cccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gagtattggg 180
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccgacggg gcctcctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat gccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgagac acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 666

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 666

```

gctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcactc agtgggctac gtggacggca cccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gagtattggg 180
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccgacggg gcctcctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat gccctgaag gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgagac acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 667

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 667

```

atgcgggtca cggcgccccg aacctcctc ctgtgtctt ggggggcagt ggcctgacc 60
gagacctggg ctggctcca ctcatgagg tatttccaca cctccgtgc cggcccgcc 120
cgcggggagc cccgcttcat ctactgggc tacgtggacg gcaccagtt cgtgaggtc 180
gacagcgagc ccgcgagtc gaggacggag ccccgccgc cgtggataga gcaagagggg 240
ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagt 300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca cacctccag 360
aggatgtacg gctgcgagc ggggcgggac ggggcctcc tccgcgga tgaccagtc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgagg ctcatgac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggagggcac gtgcgtggag tggtccgca gacacctgga gaacgggaag 600
gagacgtgc agcgcggga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga caaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtgtgtgtc tttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc taccctgag atgggagcca 900
tcttccagc ccacctccc catcgtggg attgtgtgt gctgtgtgt cctagcagtt 960
gtgtcatcg gagctgtgt cgtactgtg atgtgtagga ggaagagctc aggtgga 1017

```

&lt;210&gt; 668

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 668

```

gctccactc catgaggtat ttccacacct cegtgtcccg gcccgccgc ggggagcccc 60
gcttcactc agtggggtac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcgccggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 669

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 669

```

gctccactc catgaggtat ttccacacct cegtgtcccg gcccgccgc ggggagcccc 60
gcttcactc agtggggtac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gagtattggg 180
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtgcggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcgccggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 670

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 670

```

gctccactc catgaggtat ttccacacct cegtgtcccg gcccgccgc ggggagcccc 60
gcttcactc agtggggtac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gagtattggg 180
accggaacac acagatctcc aagaccaaca cacagactta ccgagagaa ctgcgcaccg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcgccggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 671

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 671

```

gctccactc catgaggtat ttccacacct cegtgtcccg gcccgccgc ggggagcccc 60
gcttcactc agtggggtac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gagtattggg 180
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240

```

tgcgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gggggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 672  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 672  
 gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggttac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gattattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gggggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 673  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 673  
 gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggttac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gattattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gggggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 674  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 674  
 gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggttac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gattattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gggggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgggccc gtgtggcgga gcagcggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 675  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 675  
gtccccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc ggggagcccc 60  
gtttcatctc agtgggctac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gacggagccc cgggcgccgt ggatagagca agagggggccg gattattggg 180  
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 676  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 676  
gtccccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc ggggagcccc 60  
gtttcatctc agtgggctac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gacggagccc cgggcgccgt ggatagagca agagggggccg gattattggg 180  
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 677  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 677  
gtccccactc catgaggtat ttccacacct ccgtgtcccg gcccggccgc ggggagcccc 60  
gtttcatctc agtgggctac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gacggagccc cgggcgccgt ggatagagca agagggggccg gattattggg 180  
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtctggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 678  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 678

```

gctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctgc aaggccaagg cacagactta ccgagagaac ctgcgcaccg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggct 300
gcgacgtggg gccggacggg cgctcctcc gccgggtacca ccaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgcggac acggcggctc 420
agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 679  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

```

<400> 679
atgcgggtca cggcgccccg aacctctc ctgctgctt ggggggcagt ggcctgacc 60
gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgc cggcccggc 120
cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta ccaccaggac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgccgcg 480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg ccgctgtggc ggagcagctg 540
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttccagc caccgtccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

```

<210> 680  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

```

<400> 680
atgcgggtca cggcgccccg aacctctc ctgctgctt ggggggcagt ggcctgacc 60
gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgc cggcccggc 120
cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagcatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300
gacctgcgga cctgctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta ccaccaggac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgccgcg 480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg ccgctgtggc ggagcagctg 540
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttccagc caccgtccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

```

<210> 681  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 681  
 atgcgggtca cggcgccccg aacctcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
 agcctgcgga cctgtctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta ccaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgccgcg 480  
 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctggggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttccagaa gtgggcagct gtggtgggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atggggagccg 900  
 tcttccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 682  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 682  
 atgcgggtca cggcgccccg aacctcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
 gacctgcgga cctgtctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta ccaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgccgcg 480  
 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctggggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttccagaa gtgggcagct gtggtgggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atggggagccg 900  
 tcttccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 683  
 <211> 427  
 <212> DNA  
 <213> Homo sapiens

<400> 683  
 gctacgtgga cgacacgtg ttcgtgaggt tcgacagcga cgccgcgagt ccgagagagg 60  
 agccgcgggc gccgtggata gagcaggagg gcgcggagta ttgggaccgg gagacacaga 120  
 tctgcaaggc caaggcacag actgaccgag aggacctgcg gacctgctc cgctactaca 180  
 accagagcga ggccgggtct cacacctcc agaatatgta tggtcgac gtggggccgg 240

acggggcgcct cctccgcggg taccaccagg acgcctacga cggcaaggat tacatcgccc 300  
 tgaacgagga cctgagctcc tggaccgccg cggacacggc agctcagatc acccagcgca 360  
 agtggggaggc ggcccgtgtg gcggagcagc tgagagccta cctggagggc gagtgcgtgg 420  
 agtggct 427

<210> 684  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 684  
 atgcggtca cggcgccccg aacctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttcaca cctccgtgtc cggccccggc 120  
 cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
 gacctgcgga cctgctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgacgt ggggcgggac gggcgctcc tccgcgggta ccaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgccgcg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggaggcgga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcg 619

<210> 685  
 <211> 895  
 <212> DNA  
 <213> Homo sapiens

<400> 685  
 atgcggtca cggcgccccg aacctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggtccca ctccatgagg tatttcaca cctccgtgtc cggccccggc 120  
 cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
 gacctgcgga cctgctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgacgt ggggcgggac gggcgctcc tccgcgggta ccaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgccgcg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggaggcgga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atggg 895

<210> 686  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 686  
 gctccactc catgaggtat ttccacacct ccgtgtcccg gcctggccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgcgt ggatagagca ggaggggccg gagtattggg 180  
 accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac ctgcggaccc 240  
 tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggct 300  
 gcgacgtggg gccggacggg gcctcctcc gcgggtacca ccaggacgcc tacgacggca 360



aggattacat cgccctgaac gaggacctga gctcctggac cgccgcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 687  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 687  
 atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctcca ctccatgagg tatttcaca cctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgctgtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
 agcctgcgga cctgctccg ctactacaac cagagcgagg ccgggtctca cacctccag 360  
 aatatgtatg gctgcgagct ggggcccggac gggcgctcc tccgcgggta tgaccagtac 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg gaccgcccg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggagggcg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggtccgca gatactgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca ccctgagggtg ctgggcccctg ggcttctacc ctggggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagc ccacctccc catcgtgggc attgttctg ccttggtgt ctagcagtt 960  
 gtgtcatcg gagctgtgtg cgtgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 688  
 <211> 945  
 <212> DNA  
 <213> Homo sapiens

<400> 688  
 ggctccact ccatgaggtta ttccacacc tccgtgtccc ggcccggccg cggggagccc 60  
 cgcttcata ccgtgggcta cgtggacgac acgctgttcg tgaggttcga cagcagcc 120  
 gcgagtccga gagaggagcc gcgggcgccg tggatagagc aggaggggccc ggagtattgg 180  
 gaccgggaga cacagatctg caaggccaag gcacagactg accgagagga cctgcggacc 240  
 ctgctccgt actacaacca gagcgaggcc gggtctcaca cctccagag catgtacggc 300  
 tgcgacgtgg ggccggacgg gcgcctctc cgcgggcata accagtacgc ctacgacggc 360  
 aaggattaca tcgcctgaa cgaggacctg cgctcctgga ccgcgcgga cagggcggt 420  
 cagatcccc agcgcaagtg ggagggcgcc cgtgtggcgg agcagctgag agcctacctg 480  
 gagggcgagt gcgtggagtg gctccgcaga tacctggaga acgggaagga gacgtgcag 540  
 cgcgcgacc ccccaaagac acacgtgacc caccaccca tctctgacca tgaggccacc 600  
 ctgaggtgct gggcctggg cttctacctg gcggagatca cactgacctg gcagcgggat 660  
 ggcgaggacc aaactcagga cactgagctt gtggagacca gaccagcagg agatagaacc 720  
 ttccagaagt gggcagctgt ggtgtgtcct tctggagaag agcagagata cacatgccat 780  
 gtacagcatg aggggctgcc gaagcccctc accctgagat gggagccgtc ttccagtc 840  
 accgtccca tcgtgggcat tgtgtgtgc ctggtgtcc tagcagttgt ggtcatcgga 900  
 gctgtgtcgt ctgctgtgat gtgtaggag aagagctcag gtgga 945

<210> 689  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 689

```

atgcgggtca cggcgccccg aacctctctc ctgtgtctct ggggggcagt ggcctgacc    60
gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc cggccccgc    120
cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc    180
gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga gcaggagggg    240
ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag    300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca caccctccag    360
aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcggtta ccaccaggac    420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcgcg    480
gacacggcgg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg    540
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag    600
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac    660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc    720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca    780
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg    900
tcttccagt ccacgtccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt    960
gtggtcatcg gagctgtggt cgctgtgtg atgtgtagga ggaagagctc aggtgga    1017

```

&lt;210&gt; 690

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 690atgcgggtca cggcgccccg aacctctctc ctgtgtctct ggggggcagt ggcctgacc    60
gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc cggccccgc    120
cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc    180
gacagcgacg ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga gcaggagggg    240
ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag    300
gacctgcgga cctgtctcg ctactacaac cagagcgagg cgggtctca caccctccag    360
aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcggtta ccaccagcac    420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcgcg    480
gacacggcgg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg    540
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag    600
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac    660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc    720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca    780
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg    900
tcttccagt ccacgtccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt    960
gtggtcatcg gagctgtggt cgctgtgtg atgtgtagga ggaagagctc aggtgga    1017

```

&lt;210&gt; 691

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 691

```

gtctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc    60
gttcatcac cgtgggttac gtggacgaca cgtgttctgt gaggttcgac agcgacgccg    120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg    180
accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac ctgcggacct    240
tgctccgcta ctacaaccag agcgaggcgg ggtctcacac cctccagaat atgtatgget    300
gcgacgtggg gccggacggg cgctctctcc gcgggtacca ccaggacgcc tacgacggca    360
aggattacct cgccctgaac gaggacctga gctcctggac cgccgcgac acggcggtc    420
agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagctgaga gctacctgg    480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc    540
gcgcggg                                           546

```

<210> 692  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 692  
atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc cggccccggc 120  
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
agcctgcgga cctgctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagtac 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccg 480  
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctggcgagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
tcttccagc caccgtccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 693  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 693  
atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc cggccccggc 120  
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggagtatt gggaccggga gacacagatc tgcaagacca acacacagac tgaccgagag 300  
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
aatatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta ccaccaggac 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgccg 480  
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctggcgagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
tcttccagc caccgtccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 694  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 694  
atgcgggtca cggagccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc cggccccggc 120  
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180

gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
 gacctgcgga cctgtctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgacgt ggggcgggac ggggcctcc tccgcgggta ccaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgccgcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtgtgtgtc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggtg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcgtgggc attgttctg gctggctgt cctagcagtt 960  
 gtgtcatcg gagctgtgt cgtgctgtg atgttagga ggaagagctc aggtgga 1017

<210> 695  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 695  
 atgcgggtca cggcggccc aaccctctc ctgctgctt ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca cctcgtgtc ccggccggc 120  
 cgcggggagc cccgttcat caccgtggc tacgtggacg acacgtgtt cgtgaggtc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300  
 gacctgcgga cctgtctccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggcgggac ggggcctcc tccgcgggta ccaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgccgcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgcg 619

<210> 696  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 696  
 gctcccactc catgaggtat ttccacacct ccgtgtccc gcccgccgc ggggagcccc 60  
 gttctatcac cgtgggtac gtggacgaca cgtgttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag agaggagccg cgggcgcgt ggatagagca ggaggggccc gattattggg 180  
 accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc ctgcggaccc 240  
 tgcctcgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggc 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggtacca ccaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctctggac cgccgcggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gctacctgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 697  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 697  
 gctcccactc catgaggtat ttccacacct ccgtgtccc gcccgccgc ggggagcccc 60

```

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctgc aagaccaaca cacagactga ccgagaggac ctgcggacce 240
tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggtacca ccaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgccgcggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 698  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 698
gctccactc catgaggtat ttccacacct cgtgtcccg gccgggccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagttttggg 180
accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac ctgcggacce 240
tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggtacca ccaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgccgcggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 699  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

```

<400> 699
atgcgggtca cggcgcccc aacctcctc ctgtctctt ggggggcagt ggccctgacc 60
gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc ccggcccgcg 120
cgccgggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggagcgga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aatatgtatg gctgcgacgt ggggcgggac gggcgctcc tccgcgggta ccaccaggac 420
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctctg gaccgccgcg 480
gacacggcgg ctcatatcac ccagcgcaag tgggagcgcg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcga gtgcgtggag tggtccgca gatactgga gaacgggaag 600
gagacgctgc agcgcgcgg 619

```

<210> 700  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 700
gctccactc catgaggtat ttccacacct cgtgtcccg gccgggccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctgc aaggccaagg cacagactga ccgagaggac ctgcggacce 240
tgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggtacca ccaggacgcc tacgacggca 360

```

aggattacat cgcctgaac gaggacctga gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 701  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 701  
 gctccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcccgt ggatagagca ggaggggccg gagtattggg 180  
 accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc ctgcggaccc 240  
 tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtacggct 300  
 gcgacgtggg gccggacggg cgcctctcc cgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 702  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 702  
 gctccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcccgt ggatagagca ggaggggccg gagtattggg 180  
 accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc ctgcggaccc 240  
 tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctctcc cggggtatga ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 703  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 703  
 gctccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcccgt ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaccc 240  
 tgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggct 300  
 gcgacgtggg gccggacggg cgcctctcc cggggtacca ccaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 704  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 704  
 gctccactc catgaggtat ttccacacct cegtgtccc gcccggccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc ctgaggacct 240  
 tctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac acggcggctc 420  
 agatctccca gcgaagtgg gaggcgccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 705  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 705  
 gctccactc catgaggtat ttccacacct cegtgtccc gcccggccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctgc aaggccaagg cacagactga ccgagagagc ctgaggacct 240  
 tctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggtacca ccaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcgcggac acggcggctc 420  
 agatcaccca gcgaagtgg gaggcgccc gtgaggcgga gcagtgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 706  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 706  
 atgcgggtca cggcgcccc aacctctc ctgctgtctt ggggggcagt ggccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttttaca ccgcatgtc ccggcccgcc 120  
 cggggggagc cccgttcct cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcaggtcc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccgaggtatt gggaccgga cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gtcgcgacct ggggcccgc gggcgctcc tcccgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgggcg 480  
 gacaccgagg ctcatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggtccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgga cccccaaag acacagtgga cccaccacc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggcccgt ggttcttacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840  
 tacacatgcc atgtacgca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catctgggc attgttctg gcctggctgt ctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgttagga ggaagagtc aggtgga 1017

<210> 707  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 707  
 gctcccactc catgaggtat ttctacacgc ccatgtcccg gcccggccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgaccccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcttacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 708  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 708  
 atgggggtca cggcgccccg aaccgtctc ctgtgtctt ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tattttctaca ccgcatgtc ccgccccgc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgcttc tccgcggga taaccagtac 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagtcctg gaccgcggcg 480  
 gacaccgcg ctcagatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggtccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac gagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggcgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc attgtgtgt gctgtgctgt cctagcagtt 960  
 gtggtcatcg gagctgtgt cgctactgtg atgttagga ggaagagctc aggtgga 1017

<210> 709  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 709  
 atgggggtca cggcgccccg aaccgtctc ctgtgtctt ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tattttctaca ccgcatgtc ccgccccgc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgcttc tccgcggga tgaccagttc 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagtcctg gaccgcggcg 480  
 gacaccgcg ctcagatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggtccgca gatacctgga gaacgggaag 600



gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atggggagcca 900  
 tcttccagc ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 710  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 710  
 atgcggtca cgcgccccg aaccgtctc ctgctgctt ggggggcagt ggccctgacc 60  
 gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcagtcg gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctacagatc ccagcgcaag tgggagggcg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atggggagcca 900  
 tcttccagc ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 711  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 711  
 atgcggtca cgcgccccg aaccgtctc ctgctgctt ggggggcagt ggccctgacc 60  
 gagacctggg ccggctccca ctccatgagg tatttctaca ccgccatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcagtcg gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacct ggggcccgc gggcgctcc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctacagatc ccagcgcaag tgggagggcg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccaccc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atggggagcca 900  
 tcttccagc ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 712

<211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 712

```

atgcgggtca cggcgccccg aaccgtcttc ctgctgctct ggggggcagt ggccctgacc    60
gagacctggg cgggtccca ctccatgagg tatttttaca ccgcatgtc cggccccgc    120
cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc    180
gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga gcaggagggg    240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag    300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca catcatccag    360
aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcgggca taaccagttc    420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctcctg gaccgcggcg    480
gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg    540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag    600
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac    660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc    720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca    780
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacatgcc atgtacgca tgaggggctg ccgaagcccc tcacctgag atgggagcca    900
tcttccagat ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt    960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagtc aggtgga    1017
  
```

<210> 713  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 713

```

atgcgggtca cggcgccccg aaccgtcttc ctgctgctct ggggggcagt ggccctgacc    60
gagacctggg cgggtccca ctccatgagg tatttttaca ccgcatgtc cggccccgc    120
cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc    180
gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga gcaggagggg    240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag    300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca catcatccag    360
aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcgggca tgaccagtcc    420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctcctg gaccgcggcg    480
gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg    540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag    600
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac    660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc    720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca    780
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacatgcc atgtacgca tgaggggctg ccgaagcccc tcacctgag atgggagcca    900
tcttccagat ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt    960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagtc aggtgga    1017
  
```

<210> 714  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 714

```

atgcgggtca cggcgccccg aaccgtcttc ctgctgctct ggggggcagt ggccctgacc    60
gagacctggg cgggtccca ctccatgagg tatttttaca ccgcatgtc cggccccgc    120
cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc    180
gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga gcaggagggg    240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag    300
  
```

agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggccccgac gggcgctcc tccggggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagtcctg gaccgcggcg 480  
 gacaccgagg ctacatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcagcgg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgagg cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

&lt;210&gt; 715

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 715

atgcgggtca cggcgccccg aaccgtctc ctgtctctt ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gcagcgcagc ccgcgagtc gaggcaggag cccggggcg catgtaga gcaggagggg 240  
 ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggccccgac gggcgctcc tccggggca taaccagtac 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtctctg gaccgcggcg 480  
 gacaccgagg ctacatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgagg cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

&lt;210&gt; 716

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 716

gctccactc catgaggtat ttctacaccg ccatgtcccg gccggccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcggggcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct 300  
 gcgacctggg gccgcaggg cgctctctcc ggggcataa ccagtacgc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgccgggac acggcggtc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctcccgagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

&lt;210&gt; 717

&lt;211&gt; 525

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 717

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggtac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag gacggagccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacctggg gcccgacggg gcctcctcc gcggcatga ccagtcgcc tacgacggca 360
aggattacat gcacctgaac gaggacctga gctcctggac cgcggcgac acccgggctc 420
agatcaccca gcgaagtgg gagggggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgga 525

```

&lt;210&gt; 718

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 718

```

atgcggtca cggcgcccc aaccgtctc ctgtctctt ggggggcagt ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tattttaca ccgcatgtc ccggcccgc 120
cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggacggag ccccgggcg catggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag 360
aggatgtatg gctgcgacct ggggcccgc gggcgctcc tcccgggca tgaccagtc 420
gcctacgacg gcaaggatta catgccttg aacaggagc tgagctctg gaccgcgcg 480
gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg ccgctgagc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccga gatactgga gaacgggaag 600
gagacgtgc agcgcgagg cccccaaag acacacgtga cccaccacc cgtctctgac 660
catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagc ccaccatccc catcgtgggc attgtgtg gcctggctgt cctagcagtt 960
gtgtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

```

&lt;210&gt; 719

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 719

```

atgcggtca cggcgcccc aaccgtctc ctgtctctt ggggggcagt ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tattttaca ccgcatgtc ccggcccgc 120
cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggacggag ccccgggcg catggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag 360
aggatgtacg gctgcgacct ggggcccgc gggcgctcc tcccgggca taaccagtc 420
gcctacgacg gcaaggatta catgccttg aacaggagc tgagctctg gaccgcgcg 480
gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg ccgctgtggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccga gatactgga gaacgggaag 600
gagacgtgc agcgcgagg cccccaaag acacacgtga cccaccacc cgtctctgac 660
catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900

```

tcttcccagt ccaccatccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgtactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 720  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 720  
gtcctccact catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtcgag gacggagccc cgggcgcat gtagagagca ggaggggccc gattattggg 180  
accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
gcgacctggg gcccgacggg cgcctctcc gcgggcatga ccagttccc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
gcgcgg 546

<210> 721  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 721  
gtcctccact catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtcgag gacggagccc cgggcgcat gtagagagca ggaggggccc gattattggg 180  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
gcgacctggg gcccgacggg cgcctctcc gcgggcatga ccagttccc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgccc gtgagcgga gcagtgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
gcgcgg 546

<210> 722  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 722  
atgcgggtca cggcgcccc aaccgtctc ctgtgtctt ggggggcagt ggcctgacc 60  
gagacctggg ccggtccca ctcatgagg ttttctaca ccgcatgtc ccggcccggc 120  
cgcggggagc ccgcttcat cgcagtggg tacgtggagc acaccagtt cgtgaggttc 180  
gacagcgag ccgcgagtc gaggacggag cccggggcgc catggataga gcaggagggg 240  
ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac ttaccgagag 300  
agcctcgga acctgcggg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
aggatgtatg gctgcacct ggggcccgc gggcgctcc tccggggca tgaccagtcc 420  
gcctacgag gcaaggatta catgcctg aacgaggacc tgagtcctg gaccgcggc 480  
gacaccgcg ctcatcac ccagcgaag tgggaggcgg cccgtgtggc ggagcagctg 540  
agagcctacc tggaggcgga gtgcgtggag tggtccgca gatacctgga gaacgggaag 600  
gagacgctg agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
catgaggcca cctgaggtg ctgggacctg ggcttctacc ctgcggagat cactgacc 720  
tggcagggg atggcgagga ccaaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagtc ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggatcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 723  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 723  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgcccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgccgggcta ctacaaccag agcgaggccg ggtctcacat catccagagc atgtacggct 300  
 gcgacgtggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 724  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 724  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgcccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgccgggcta ctacaaccag agcgaggccg ggtctcacat catccagagc atgtacggct 300  
 gcgacgtggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 725  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 725  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgcccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgccgggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcataa ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 726

<211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 726  
 gctcccactc catgaggat ttctacaccg ccatgtcccg gcccggccgc ggggagcccc 60  
 gcttcacgc agtgggtac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 727  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 727  
 gctcccactc catgaggat ttctacaccg ccatgtcccg gcccggccgc ggggagcccc 60  
 gcttcacgc agtgggtac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 728  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 728  
 gctcccactc catgaggat ttctacaccg ccatgtcccg gcccggccgc ggggagcccc 60  
 gcttcacgc agtgggtac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 729  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 729  
 gctcccactc catgaggat ttctacaccg ccatgtcccg gcccggccgc ggggagcccc 60

```

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag gacggagccc cgggcgccat gtagagagca ggagggggccg gattattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacctggg gcccgacggg cgcctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 730  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 730gctccactc catgaggtat ttctacaccg ccagtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag gacggagccc cgggcgccat gtagagagca ggagggggccg gattattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtttggct 300
gcgacctggg gcccgacggg cgcctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 731  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 731
gctccactc catgaggtat ttctacaccg ccagtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag gacggagccc cgggcgccat gtagagagca ggagggggccg gattattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacctggg gcccgacggg cgcctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 732  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 732
gctccactc catgaggtat ttctacaccg ccagtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag agaggagccc cgggcgccat gtagagagca ggagggggccg gattattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacctggg gcccgacggg cgcctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480

```



agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 733  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 733  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc agtggggtac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccc.cggcgccat ggatagagca ggaggggccc gaattattggg 180  
accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcggggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
gcgacctggg gcccgacggg cgctctctcc ggggcatga ccagtcgcc tacgacgga 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcgac acccgggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 734  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 734  
gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc agtggggtac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gacggagccc.cggcgccat ggatagagca ggaggggccc gattattggg 180  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagAAC ctgcggaacc 240  
tgcggggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
gcgacctggg gcccgacggg cgctctctcc ggggcatga ccagtcgcc tacgacgga 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcgac acccgggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 735  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 735  
atgcgggtca cggcgccccg aaccgtctc ctgtctctt ggggggcagt ggcctgacc 60  
gagacctggg ccggtccca tccatgagg ttttctaca ccgcatgtc ccggccggc 120  
cgcggggagc ccgcttcat cgagtggg tacgtggacg acaccagtt cgtgaggttc 180  
gacagcgagc ccgaggtcc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
ccggagtatt gggaccggga gacacagatc tcaagacca acacacagac ttaccgagag 300  
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
aggatgtatg gtgcgacct ggggcccgc gggcgctcc tccgcgga tgaccagtcc 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcgcg 480  
gacaccggg ctcagatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcagctg 540  
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgtgc agcgcgcg 619

<210> 736

<211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 736  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctctcc gcggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 737  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 737  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacat catccagagc atgtacggct 300  
 gcgacctggg gcccgacggg cgcctctcc gcggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 738  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 738  
 atgcgggtca cggcgccccg aaccgtctc ctgtgtctt ggggggcagt ggcctgacc 60  
 gagacctggg ccggctccca ctccatgagg tattttaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggcccggac ggggcctcc tccgaggga taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcccg 480  
 gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggaggcgga gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca ccctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tctccagc caccgtccc catgtgggc attgtgtg gctgtgctgt cctagcagtt 960  
 gtgtcatcg gagctgtggt cgctgtgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 739  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 739  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccc ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gcccgacggg cgcctcctcc gcgggcatga ccagtccgc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 740  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

<400> 740tgaccgagac ctgggccgc tccactcca tgaggtattt ctacaccgcc atgtccggc 60  
 ccggccgcgg ggagccccgc ttcacgcag tgggctacgt ggacgacacc cagtctgtga 120  
 ggttcgacag cgacgccgc agtccgagga cggagccccg ggcgccatgg atagagcagg 180  
 aggggccgga gtattgggac cggaacacac agatcttcaa gaccaacaca cagacttacc 240  
 gagagagcct gcggaacctg cgcggctact acaaccagag cgaggccggg tctcacatca 300  
 tccagaggat gtatggctgc gacctggggc ccgacgggcg cctcctccgc ggcatgacc 360  
 agttcgccta cgacggcaag gattacatcg cctgaacga ggacctgagc tctggaccg 420  
 cggcggacac cgcggctcag atcacccagc gcaagtggga ggcggcccgt gtggcggagc 480  
 agctgagagc ctacctggag ggcgagtgcg tggagtggct ccgagatac ctggagaacg 540  
 ggaaggagac gctgcagcgc gcgg 564

<210> 741  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 741  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagtacgc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 742  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 742  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60

```

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag gacggagccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 743  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 743
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag gacggagccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcgacta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 744  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 744
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag gacggagccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 745  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (547)..(547)  
 <223> n is a, c, g, or t

```

<400> 745
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60

```

gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gacggagccc cgggcgcat ggatagagca ggaggggccc gaggattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggtta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gccgacggg cgctcctcc gcgggcatga ccagttcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggtc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgdna 548

<210> 746  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 746  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gacggagccc cgggcgcat ggatagagca ggaggggccc gaggattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggtta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccgacggg cgctcctcc gcgggcatga ccagtagcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggtc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 747  
 <211> 912  
 <212> DNA  
 <213> Homo sapiens

<400> 747  
 gggggcagt gacctgaccg agacctgggc cggtccac tccatgaggt atttctacac 60  
 cgccatgtcc cgcccgccc gcggggagcc ccgttcac gagggggct acgtggacga 120  
 caccagttc gtgaggttcg acagcgacgc cgcaggtccg aggacggagc cccggcgcc 180  
 atggatagag caggaggggc cggagtattg ggaccggaac acacagatct tcaagacaa 240  
 cacacagact taccgagaga gcctgcggaa cctgcgcggc tactacaacc agagcgagge 300  
 cgggtctcac atcatccaga ggatgtatgg ctgcgacctg gggcccgacg ggcgcctcct 360  
 ccgcgggcat gaccagtccg cctgcgacgg caaggattac atcgccctga acgaggacct 420  
 gagtctctgg acccgggcgg acaccgggc tcagatcacc cagcgcaagt gggaggcgge 480  
 ccgtgtggcg gacgagctga gacctaact ggaggcctg tgcgtggagt ggctccgag 540  
 atacctggag aacgggaagg agacgtgca gcgcgcggac ccccaaaga cacacgtgac 600  
 ccaccacccc gtctctgacc atgaggccac cctgaggtgc tgggccttg gcttctacc 660  
 tgcggagatc aactgacct ggcagcgga tggcgaggac caaactcagg aactgagct 720  
 tgtggagacc agaccagcag gagatagaac ctccagaag tgggcagctg tgggtgtgcc 780  
 ttctggagaa gacgagagat acacatgcca tgtacagcat gaggggctgc cgaagccct 840  
 caccctgaga tgggagccat ctccagtc caccatcccc atcgtgggca ttgttctg 900  
 cctgctgtc ct 912

<210> 748  
 <211> 1012  
 <212> DNA  
 <213> Homo sapiens

<400> 748  
 atgcgggtca cggcgcccc aacctctc ctgctgtct gggggcagt ggcctgacc 60

gagacctggg ctggctccca ctccatgagg tattttctaca cgcctatgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccagc gggcgctcc tcccggggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgaggcg 480  
 gacacggcg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacactga cccaccacc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgtgtgtg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctactgtg atgttagga ggaagagtc ag 1012

<210> 749

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 749

atgcgggtca cggcgccccg aaccgtctc ctgctgtct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tattttctaca cgcctatgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacct ggggcccagc gggcgctcc tcccggggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgaggcg 480  
 gacacggcg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgtgtgtg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctactgtg atgttagga ggaagagtc aggtgga 1017

<210> 750

<211> 546

<212> DNA

<213> Homo sapiens

<400> 750gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgcc 120  
 cgagtcgag gacggagccc cgggcgcat gtagagaga ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccc ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctctcc gcgggcataa ccagtacgc tacgacggca 360  
 aggtattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggtc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctg 480  
 agggcctgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgtgcagc 540  
 gcgagg 546

<210> 751  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 751  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gtttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg gcctcctcc ggggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagcggaga gcctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 752  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 752  
 atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc ccggcccgc 120  
 cgcggggagc ccgcttcat ctcatgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 gacctgcgga cctgctccg ctactacaac cagagcgagg ccgggtctca caccatccag 360  
 aggatgtctg gctgcgacgt ggggcccggac gggcgctcc tccgcgggta taaccagttc 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagc ccacctccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 753  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 753  
 atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgtc ccggcccgc 120  
 cgcggggagc ccgcttcat ctcatgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 gacctgcgga cctgctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aatatgtatg gctgcgacgt ggggcccggac gggcgctcc tccgcgggta ccaccaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660

```

catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttcccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctgtgtg atgtgtagga ggaagagctc aggtgga 1017

```

<210> 754  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

```

<400> 754
atcggggtca cggcgcccc aacctcctc ctgctgctct ggggggcagt ggccctgacc 60
gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc cggcccggc 120
cgcggggagc cccgcttcat ctcaagtggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgagagtc gaggaaggag ccccgggcgc cgtggataga gcaggagggg 240
ccgaggtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
gacctgcgga cctgtctcg ctactacaac cagagcgagg ccgggtctca caccatccag 360
aggatgtctg gctgcgacgt ggggcccggc gggcgctcc tccgcggtta taaccagttc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

```

<210> 755  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

```

<400> 755
atcggggtca cggcgcccc aacctcctc ctgctgctct ggggggcagt ggccctgacc 60
gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc cggcccggc 120
cgcggggagc cccgcttcat ctcaagtggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgagagtc gaggaaggag ccccgggcgc cgtggataga gcaggagggg 240
ccgaggtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
gacctgcgga acctgcgag ctactacaac cagagcgagg ccgggtctca caccatccag 360
aggatgtctg gctgcgacgt ggggcccggc gggcgctcc tccgcggtta taaccagttc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gataacctgga gaacgggaag 600
gagacgtgc agcgcgcg 619

```

<210> 756  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

```

<400> 756
atgctggtca tggcgcccc aacctcctc ctgctgctct cggggccct ggccctgacc 60
gagacctggg cggctccca ctccatgagg tatttctaca cctccgtgtc cggcccggc 120

```



cgcggggagc cccgcttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccgtcc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctgtgtg atgtgtagga ggaagagttc aggtgga 1017

&lt;210&gt; 757

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 757

atgtgtgtca tggcgcccc aaccgtctc ctgctgtct cggcggccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tttttctaca cctcgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300  
 aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccgtcc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctgtgtg atgtgtagga ggaagagttc aggtgga 1017

&lt;210&gt; 758

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 758

gctccactc catgaggtat ttctacacct ccgtgtccc gcccgccgc ggggagcccc 60  
 gttctatctc agtgggttac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gaattattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg gcctctctc gcgggcataa ccagttcgcc tacgacggca 360  
 aggattacat gcctcgaac gaggacctga gctctggac agcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 cgcgcg 546

<210> 759  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 759  
 gctcccactc catgaggtat ttctacacct cegtgtcccg gcccggccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cggcgcccggt ggatagagca ggaggggccc gaattattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 760  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 760 gctcccactc catgaggtat ttctacacct cegtgtcccg gcccggccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cggcgcccggt ggatagagca ggaggggccc gattattggg 180  
 accgggagac acagatctgc aagaccaaca cacagactta ccgagagAAC ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 761  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 761  
 gctcccactc catgaggtat ttctacaccg cegtgtcccg gcccggccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cggcgcccggt ggatagagca ggaggggccc gaattattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactta ccgagagAAC ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcggaccc cccaaagaca catgtgacct accaccat ctctgacct gaggccacc 600  
 tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga gacagaacct 720  
 tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccctca cctgagatg gg 822

<210> 762  
 <211> 546  
 <212> DNA

<213> Homo sapiens

<400> 762

```

gctcccactc catgaggtat ttctacacct ccgtgtcccc gcccgccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc cggggcataa ccagttgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgaagtgg gagggcgccc gtgtggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 763

<211> 546

<212> DNA

<213> Homo sapiens

<400> 763

```

gctcccactc catgaggtat ttctacacct ccgtgtcccc gcccgccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg ggatattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc cggggcataa ccagttgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgaagtgg gagggcgccc gtgtggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 764

<211> 546

<212> DNA

<213> Homo sapiens

<400> 764

```

gctcccactc catgaggtat ttctacacct ccgtgtcccc gcccgccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaatattggg 180
accggaacac acagatctgc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc cggggcataa ccagttgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgaagtgg gagggcgccc gtgtggcgga gcagctgaga acctacctgg 480
agggcatgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 765

<211> 548

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (547)..(547)

<223> n is a, c, g, or t

<400> 765

```

gtctccactc catgaggtat ttctacacct cegtgtcccg gcccggccgc ggggagcccc 60
gtttcatctc agtgggctac gtggacgaca cgagttcgt gagttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaatattggg 180
accggaacac acagatctgc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggag accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgdna 548

```

<210> 766

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 766

```

atgctggtca tggcgccccg aaccgtctc ctgctgctct cggcggccct ggcctgacc 60
gagacctggg ccggtcccca ctccatgagg tttttctaca cctccgtgtc ccggcccggc 120
cgcggggagc cccgttcat ctactgggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcgggac gggcgccctc tccgcgggca taaccagttc 420
gctacgacg gcaaggatta catgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgagg ctcatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcagctg 540
agaacctacc tggagggcac gtgctggag tggctcgca gatactgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggcctg ggttctacc ctgcggagat cacttgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagacagaa ctttcagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagat ccacgtccc catctgggc attgtgtgtg gcttggtgt cctagcagtt 960
tggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagttc aggtgga 1017

```

<210> 767

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 767

```

atgctggtca tggcgccccg aaccgtctc ctgctgctct cggcggccct ggcctgacc 60
gagacctggg ccggtcccca ctccatgagg tttttctaca cctccgtgtc ccggcccggc 120
cgcggggagc cccgttcat ctactgggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcgggac gggcgccctc tccgcgggca taaccagttc 420
gctacgacg gcaaggatta catgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgagg ctcatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcagctg 540
agaacctacc tggagggcac gtgctggag tggctcgca gatactgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggcctg ggttctacc ctgcggagat cacttgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagacagaa ctttcagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840

```

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagtc ccacctccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttagga ggaagagctc aggtgga 1017

<210> 768  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 768  
 gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag agaggagccg cggcgccgt ggatagagca ggaggggcca gaattattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgaagtgg gagggcgccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 769  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 769  
 atgtgtgtca tggcgcccc aaccgtctc ctgctgtctt cggcgccct gccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgc ccgcccggc 120  
 cgcggggagc ccgcttcat ctgagtggtc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggccc cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggga gacacagatc tccaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcccggac gggcgctcc tcccgggca taaccagttc 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg ccgctgtggc ggagcagctg 540  
 agaacctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaag acacatgtga cccaccacc catctctgac 660  
 catagggca cctgaggtg ctgggacctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa cttccagaa gtgggagct gtggtgtgct cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagtc ccacctccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttagga ggaagagctc aggtgga 1017

<210> 770  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 770atgtgtgtca tggcgcccc aaccgtctc ctgctgtctt cggcgccct gccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgc ccgcccggc 120  
 cgcggggagc ccgcttcat ctgagtggtc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggccc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcccggac gggcgctcc tcccgggca taaccagttc 420

```

gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agaacctacc tggagggcac gtgctggag tggctccgca gatacctgga gaacgggaag 600
gagacgtctg agcgcgcgga ccccccag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagacagaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggtg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccaccgtccc catcgtgggc attgtgtgtg gcttggtgt cctagcagtt 960
gtgtcatcg gagctgtgtg cgctgtgtg atgtgttaga ggaagagttc aggtgga 1017

```

<210> 771  
 <211> 993  
 <212> DNA  
 <213> Homo sapiens

```

<400> 771
gtctctctgc tgctctcggc ggccctggcc ctgaccgaga cctgggcccgt cctccactcc 60
atgaggtatt tctacacct cgtgtcccgg cccggccgag gggagccccg cttcatctca 120
gtgggtctac tggacgacac gcagttcgtg aggttcgaca gcgacggcg gagtccgaga 180
gaggagccgc gggcgccgtg gatagagcag gaggggccgg aatattggga ccggaacaca 240
cagatctgca agaccaacac acagactgac cgagagagcc tgcggaacct gcgcggctac 300
tacaaccaga gcgaggccgg gtctcacacc ctccagagca tgtacggctg cgacgtgggg 360
ccgacggggc gctctctcg cgggcataac cagttcgct acgacggcaa ggattacatc 420
gcctgaacg aggacctgag ctctggacc gcggcggaca ccgcggtca gatcaccag 480
cgcaagtggg aggcggcccc tgtggcggag cagctgagaa cctacctgga gggcacgtgc 540
gtggagtggc tccgagata cctggagaa ggaaggaga cgctgcagcg cgcggacccc 600
ccaaagacac atgtgacca ccacccatc tctgacctg aggccaccct gaggtgtgtg 660
ggcctgggt tctacctgc ggagatcaca ctgacctggc agcgggatgg cgaggaccaa 720
actcaggaca ccgagctgt ggagaccaga ccagcaggag acagaacctt ccagaagtgg 780
gcagctgtgg tgggtccttc tggagaagag cagagataca catgcatgt acagcatgag 840
gggctgccga agccctcac cctgagatgg gagcatctt cccagtcac cgtcccatc 900
gtgggcatg tttgtggct ggtgtctc gacgtgtgtg tcatcgagc tgtgtgtgt 960
gctgtgatgt gtaggaggaa gatttcaggt gga 993

```

<210> 772  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

```

<400> 772
atgtgtgtca tggcggccc aacctctc ctgtgtct cggcgccct ggccctgacc 60
gagacctggg ccggtccca ctcatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc ccgcttcat ctactgggc tacgtggac acacgcagtt cgtgaggttc 180
gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggaatatt gggaccgga cacacagatc tgcaagacca acacacagac tgaccgagag 300
agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcgggac gggcgccct tccggggca taaccagttc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agaacctacc tggagggcac gtgctggag tggctccgca gatacctgga gaacgggaag 600
gagacgtctg agcgcgcgga ccccccag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagacagaa ccttcagaa gtgggcagct gtggtgtgtc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggtg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccaccgtccc catcgtgggc attgtgtgtg gcttggtgt cctagcagtt 960
gtgtcatcg gagctgtgtg cgctgtgtg atgtgttaga ggaagagttc aggtgga 1017

```

<210> 773  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 773  
atgctggtca tggcgccccg aaccgtcttc ctgctgctct cggcgggccct ggccctgacc 60  
gagacctggg cgggtcccca ctccatgagg tattttctaca cctccgtgtc cgggcccggc 120  
cgcgggggagc cccgcttcat ctactgggc tacgtggacg acacgcagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
aggatgtacg gctgcgacgt ggggcccggac gggcgccctc tccgcgggca taaccagttc 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
gacaccgagg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctgggccctg ggttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
ggagacagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atgggagcca 900  
tcttccagc ccaccgtccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctgctgtg atgttagga ggaagagttc aggtgga 1017

<210> 774  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 774  
atgctggtca tggcgccccg aaccgtcttc ctgctgctct cggcgggccct ggccctgacc 60  
gagacctggg cgggtcccca ctccatgagg tattttctaca cctccgtgtc cgggcccggc 120  
cgcgggggagc cccgcttcat ctactgggc tacgtggacg acacgcagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
acgatgtacg gctgcgacgt ggggcccggac gggcgccctc tccgcgggca taaccagttc 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
gacaccgagg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctgggccctg ggttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
ggagacagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atgggagcca 900  
tcttccagc ccaccgtccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctgctgtg atgttagga ggaagagttc aggtgga 1017

<210> 775  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 775  
atgctggtca tggcgccccg aaccgtcttc ctgctgctct cggcgggccct ggccctgacc 60  
gagacctggg cgggtcccca ctccatgagg tattttctaca cctccgtgtc cgggcccggc 120  
cgcgggggagc cccgcttcat ctactgggc tacgtggacg acacgcagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240

ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctacagatcac ccagcgcaag tgggaggcgg ccctgttggc ggagcagctg 540  
 agaacctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccc aaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc aggtgga 1017

&lt;210&gt; 776

&lt;211&gt; 413

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 776

ggttcgacag cgacgccgag agtccgagag aggagccgag ggcgccgtgg atagagcagg 60  
 aggggccgga atattgggac cggaacacac agatctgcaa gaccaacaca cagacttacc 120  
 gagagagcct gcggaacctg cgcggctact acaaccagag cgaggccggg tctcacacc 180  
 tccagaggat gtacggctgc gacgtggggc cggaacggcg cctcctccgc ggcatgacc 240  
 agtccgccta cgacggcaag gattacatcg ccctgaacga ggacctgagc tcttgaccg 300  
 cgggcgacac cgcggctcag atcaccagc gcaagtggga ggccggccgt gtggcggagc 360  
 agctgagaac ctacctggag ggcacgtgcg tggagtggct ccgcagatac ctg 413

&lt;210&gt; 777

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 777

atgtgtgta tggcgcccc aaccgtctc ctgtgtctt cggcgccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttttaca ctccgtgtc ccggcccggc 120  
 cgcgggggag cccgttcat ctactgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctcag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctacagatcac ccagcgcaag tgggaggcgg ccctgttggc ggagcagcgg 540  
 agaacctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccc aaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc aggtgga 1017

&lt;210&gt; 778

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 778

```

atgtgtgtca tggcgccccg aaccgtcttc ctgtgtctct cggcggccct ggccctgacc    60
gagacctggg cgggtccca ctccatgagg tattttctaca cctccgtgtc cggcccggc    120
cgcgggggagc cccgttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc    180
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg    240
ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag    300
agcctgcgga acctgcgagg ctactacaac cagagcgagg cgggtctca caccctccag    360
aggatgtctg gctgcgacgt ggggcccggac gggcgctcc tccgaggga taaccagttc    420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctctg gaccgaggcg    480
gacaccgagg ctcatatc ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg    540
agaacctacc tggaggggcac gtgcgtggag tggctccgca gatactgga gaacgggaag    600
gagacgtgc agcgcggga cccccaaag acacatgtga cccaccacc catctctgac    660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc    720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca    780
ggagacagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca    900
tcttccagt ccaccgtcc catcgtgggc attgttctg gctggctgt cctagcagtt    960
gtggtcatcg gagctgtgtg cgctgtgtg atgttagga ggaagagttc aggtgga    1017

```

&lt;210&gt; 779

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 779

```

atgtgtgtca tggcgccccg aaccgtcttc ctgtgtctct cggcggccct ggccctgacc    60
gagacctggg cgggtccca ctccatgagg tattttctaca cctccgtgtc cggcccggc    120
cgcgggggagc cccgttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc    180
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg    240
ccggagtatt gggaccggaa cacacagatc tacaagacca acacacagac tgaccgagag    300
agcctgcgga acctgcgagg ctactacaac cagagcgagg cgggtctca caccctccag    360
aggatgtacg gctgcgacgt ggggcccggac gggcgctcc tccgaggga taaccagttc    420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctctg gaccgaggcg    480
gacaccgagg ctcatatc ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg    540
agaacctacc tggaggggcac gtgcgtggag tggctccgca gatactgga gaacgggaag    600
gagacgtgc agcgcggga cccccaaag acacatgtga cccaccacc catctctgac    660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc    720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca    780
ggagacagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca    900
tcttccagt ccaccgtcc catcgtgggc attgttctg gctggctgt cctagcagtt    960
gtggtcatcg gagctgtgtg cgctgtgtg atgttagga ggaagagttc aggtgga    1017

```

&lt;210&gt; 780

&lt;211&gt; 677

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 780tacacctccg tgtccggcc cggccgggg gagccccgt tcattcagt gggctacgtg    60
gacgacagc agttcgtgag gttcgacagc gacgcgcga gtccgagaga ggagccggc    120
gcgcgtgga tagagcagga ggggcccga tattgggacc ggaacacaca gatctgcaag    180
accaacacac agactaccg agagagcctg ccgaacctgc gcggtacta caaccagacg    240
gaggccgggt ctacacctt ccagaggatg tacggctgcg acgtggggcc ggacggggcg    300
ctctccgcg ggcataacca gttcgctac gacggcaagg attacatcg cctgaacgag    360
gacctgagct cctggaccg ggcggacacc gcggtcaga tcaccagcg caagtgggag    420
gcggcccgtg tggcgagca ggggagaacc tacctggagg gcacgtgct ggagtggctc    480
cgagatacc tggagaacgg gaaggagacg ctgcagcgcg cgaccccc aaagacacat    540
gtgaccacc acccatctc tgacctgag gccacctga ggtgtgggc cctgggcttc    600

```

taccctgccc agatcacact gacctggcag cgggatggcg aggaccaaac tcaggacacc 660  
gagcttgtgg agaccag 677

<210> 781  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 781  
gtcccaactc catgaggtat ttgacacccg ccgtgtcccg gcccgccgc ggagagcccc 60  
gtttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gaattattggg 180  
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gtcctggac cgcggcgac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 782  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 782  
gtcccaactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gtttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gattattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gtcctggac cgcggcgac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 783  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 783  
gtcccaactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gtttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gaattattggg 180  
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gtcctggac cgcggcgac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 784  
<211> 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 784

```

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaatattggg 180
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggtcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagttcgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 785

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 785

```

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcattctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctac aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggtcta ctacaaccag agcgaggccg ggtctcacac cctccacagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 786

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 786

```

atgctgtgta tggcgcccc aaccgtctc ctgctgtctt cggcgccct gccctgacc 60
gagacctggg ccggtccca ctccatgagg tttttctaca cctccgtgtc ccggcccgcc 120
cgcggggagc cccgttcat ctactgggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccgga cacacagatc tacaagacca acacacagac tgaccgagag 300
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcccggac gggcgccctc tccgcgggta taaccagtta 420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgagtcctg gaccgcggcg 480
gacaccgegg ctcatgacac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagctg 540
agaacctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcgcg 619

```

&lt;210&gt; 787

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 787

```

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60

```

```

gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg gaattattggg 180
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 788  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 788
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccat ggatagagca ggagggggccg gattattggg 180
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagtgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 789  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 789
gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg gattattggg 180
accggaacac acagatctac aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagtgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 790  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 790gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg gaattattggg 180
accgggagac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagtgaga acctacctgg 480

```

agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 791  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 791  
gtccccactc catgaggtat ttctacacct cctgttcccg gcccgccgc ggggagcccc 60  
gtttcatctc agtgggtctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctctcc gcggcataa ccagttcgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
agatcacccg gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 792  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 792  
atgctggtca tggcgccccg aaccgtctc ctgctgctct cggcgccct ggccctgacc 60  
gagacctggg ccggtccca ctccatgagg tttttctaca cctccgtgtc ccggcccgcc 120  
cgcggggagc cccgttcat ctactgggc tacgtggacg acacgcagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcggcgcc cgtggataga gcaggagggg 240  
ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300  
agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
agcacgtacg gctgcagct ggggcgggac gggcgctcc tcccgggca taaccagttc 420  
gcctacgacg gcaaggatta catgcctg aacgaggacc tgagctctg gaccgcggcg 480  
gacaccggc ctcagatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcagctg 540  
agaacctacc tggagggcac gtgcgtggag tggctcgca gatactgga gaacgggaag 600  
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctggccctg gcttctacc ctgcggagat cactctgacc 720  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
ggagacagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
tcttccagt ccaccgtcc catcgtggc attgtgtgt gcttggtgt cctagcagtt 960  
gtggtcatcg gagctgtgt cgtgctgtg atgttagga ggaagagttc aggtgga 1017

<210> 793  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 793  
gtccccactc catgaggtat ttctacacct cctgttcccg gcccgccgc ggggagcccc 60  
gtttcatctc agtgggtctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaattattggg 180  
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctctcc gcggcataa ccagttcgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc ttgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 794  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 794  
 gctccactc catgaggat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcactc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg gaattattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactga ccgagtgagc ctgcggaacc 240  
 tgcggggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg gcctctctc gcgggcataa ccagtccgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 795  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 795  
 atgcgggtca cggcaccccg aaccgtctc ctgtgtctt cggcgccct gccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttcaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcggcgcc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcgggac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtctctg gaccgccgcg 480  
 gacacggcgg ctcatatctc ccagcgcaag ttggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gacaagctgg agcgcgtga cccccaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg gttttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcgtgggc attgtgtctg gctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctgtgtg atgtgtagga ggaagagttc aggtgga 1017

<210> 796  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 796  
 atgcgggtca cggcaccccg aaccgtctc ctgtgtctt cggcgccct gccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttcaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcggcgcc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360

```

aggatgtacg gctgcgacgt ggggccggac ggggcctcc tccgcgggca taaccagtac 420
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg gaccgcccg 480
gacacggcgg ctacagatctc ccagcgcaag ttggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggaggggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggtttctacc ctgcggagat cacttgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagtc aggtgga 1017

```

&lt;210&gt; 797

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 797

```

gctcccactc catgaggtat ttccacaccg ccatgtccc gcccggccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgcctg ggatagagca ggaggggccg gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac acggcggtc 420
agatctccca gcgcaagttg gagggggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtg ctccgagat acctggagaa cggaaggac aagctggagg 540
gcgctgaccc ccaaagaca cactgaccc accaccccat ctctgacct gagggcacc 600
tgaggtgctg ggcctgggt ttctacctg cggagatcac actgacctg cagcgggatg 660
gcgaggacca aactcaggac actgagctt tggagaccag accagcagga gatagaacct 720
tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780
tacagcatga ggggctgccg aagccctca cctgagatg gg 822

```

&lt;210&gt; 798

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 798

```

atgcgggtca cggcgccccg aacctctcct ctgtgtctt ggggggcagt ggccctgacc 60
gagacctggg ctggctccca ctcatgagg tatttcaca cctcgtgtc ccggcccgcc 120
cgcggggagc ccgcttcat caccgtgggc tactggagc acacgtgtt cgtgaggtc 180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tcaaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
agcatgtacg gctgcgacgt ggggccggac ggggcctcc tccgcgggca taaccagtac 420
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg gaccgcccg 480
gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggaggggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagtc aggtgga 1017

```

<210> 799  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 799  
 atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcccgc 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggaggggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 800  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 800atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggccggac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcccgc 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggaggggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 801  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 801  
 atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300



agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga ccaccaccc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgttagga ggaagagctc aggtgga 1017

<210> 802

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 802

atgcgggtca cggcgccccg aaccctctc ctgctgctct ggggggcagt ggcctgacc 60  
 gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcgggagc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga ccaccaccc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgttagga ggaagagctc aggtgga 1017

<210> 803

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 803

atgcgggtca cggcaccg aaccgtctc ctgctgctct cggcgccct ggcctgacc 60  
 gagacctggg ccggctccca ctccatgagg tatttccaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcgggagc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacaagctgg agcgcgctga cccccaaag acacacgtga ccaccaccc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagtc aggtgga 1017

<210> 804  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 804  
 atgcgggtca cggcgccccg aacctcctc ctgctgctct ggggggcagt ggcctgacc 60  
 gagacctggg ctggctcca ctccatgagg tatttccaca cctccgtgtc ccggcccggc 120  
 cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgctgtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catgtaga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca cacctccag 360  
 agcatgtacg gctgcgacgt ggggcgggac gggcgctcc tccggggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgctctg gaccgcccgc 480  
 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg ccgctgtggc ggagcagctg 540  
 agagcctacc tggaggcgga gtgcgtggag tggctcgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggcccgt ggtctctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttccagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagtc aggtgga 1017

<210> 805  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 805  
 gctccactc catgaggtat ttccacacct ccgtgtccc gcccggccgc ggggagcccc 60  
 gcttcatcac cgtgggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cggcgccat gtagatagca ggaggggccg gattattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgaggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgcctctcc gcgggtatga ccagtacgc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gtcctggac cgccgaggac acggcggtc 420  
 agatcacca gcgaagtgg gagggggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgctgcagc 540  
 gcgagg 546

<210> 806  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 806  
 gctccactc catgaggtat ttctacaccg ccatgtccc gcccggccgc ggggagcccc 60  
 gcttcatgc agtgggtac gtggacgaca cgagttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cggcgccat gtagatagca ggaggggccg gattattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgaggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctctcc gcgggcataa ccagtacgc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gtcctggac cgccgaggac acggcggtc 420

agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 807  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 807  
 gctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcggcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctgc gctcctggac gccgcggac acggcggtc 420  
 agatcaccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgchg 546

<210> 808  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 808  
 atgcgggtca cggcgccccg aaccgtctc ctgtgtctt cgggagccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgttcat ctcaagtggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggtatgtacg gctgcgacgt gggcccgac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcctg gaccgcgag 480  
 gacacggcgg ctcatatc ccagcgcaag ttggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggaggggca gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacaagctgg agcgcgctg 619

<210> 809  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 809  
 atgcgggtca cggcgccccg aaccctctc ctgtgtctt ggggggcagt ggccctgacc 60  
 gagacctggg ctggtccca ctccatgagg tatttccaca ctcctgtgc ccggcccggc 120  
 cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc ttcaagacca acacacagac ttaccgagag 300  
 aacctgcgga tgcgtccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt gggcccgac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcctg gaccgcgag 480  
 gacacggcgg ctcatatc ccagcgcaag ttggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggaggggca gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgag 619

<210> 810  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 810  
 gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacac cgtgggctac gtggacgaca cgtgttcgt gaggttcgac agcgacgcca 120  
 cgagtcagag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 811  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 811  
 gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacac cgtgggctac gtggacgaca cgtgttcgt gaggttcgac agcgacgcca 120  
 cgagtcagag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 812  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 812  
 gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacac cgtgggctac gtggacgaca cgtgttcgt gaggttcgac agcgacgcca 120  
 cgagtcagag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggattgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 813  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 813

```

atgcgggtca cggcaccg aaccgtctc ctgtctctt cggcggccct ggcctgacc    60
gagacctggg cgggtccca ctccatgagg tatttccaca ccgcatgtc ccggccggc    120
cgcggggagc cccgttcat caccgtggg tacgtggacg acacgtgtt cgtgaggttc    180
gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga gcaggagggg    240
ccggagtatt gggaaccggg gacacagatc tccaagacca acacacagac ttaccgagag    300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggttca caccctccag    360
agcatgtacg gctgcgagct ggggcccggc gggcgctcc tccgcgggca taaccagtac    420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgccg    480
gacacggcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagcgg    540
agagcctacc tggagggcga gtgcgtggag tggtccgca gatactgga gaacgggaag    600
gacaagctgg agcgcgctg                                     619

```

&lt;210&gt; 814

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 814

```

gtctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc    60
gttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca    120
ccagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccg gagtattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc    240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct    300
gcgacgtggg gccggacggg cgctctctcc gggggcatga ccagtacgcc tacgacggca    360
aggattacat cgccctgaac gaggacctgc gctctggac cgccgggac acggcggtc    420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg    480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc    540
gcgcgg                                     546

```

&lt;210&gt; 815

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 815

```

gtctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc    60
gttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca    120
cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccg gagtattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaa ctgcggatcg    240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct    300
gcgacgtggg gccggacggg cgctctctcc gggggcataa ccagtacgcc tacgacggca    360
aggattacat cgccctgaac gaggacctgc gctctggac cgccgggac acggcggtc    420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg    480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc    540
gcgcgg                                     546

```

&lt;210&gt; 816

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 816

```

atgcgggtca cggcgcccc aacctctc ctgtctctt ggggggcagt ggcctgacc    60
gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc ccggccggc    120
cgcggggagc cccgttcat caccgtggg tacgtggacg acacgtgtt cgtgaggttc    180
gacagcgacg ccacgagtcc gaggaaggag ccgcggggcg catggataga gcaggagggg    240

```

ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgtctctg gaccgccgcg 480  
 gacacggcgg ctcatgtcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgg 619

<210> 817  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 817  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcggggcta ctacaaccag agcgaggcgg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac gccgcggac acggcggctc 420  
 agatctccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtggt ctccgcagat acctggagaa cgggaaggac aagctggagc 540  
 gcgctg 546

<210> 818  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 818  
 atgcgggtca cggcaccgga aaccgtcttc ctgctgctct cggcgccct gccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttcaca ccgccatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcggggcg catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccttg aacgaggacc tgcgtctctg gaccgccgcg 480  
 gacacggcgg ctcatgtctc ccagcgcaag tgggaggcgg cccgtgaggc ggagcagcgg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacaagctgg agcgcgctg 619

<210> 819  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 819  
 gctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgtgttctgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcggggcta ctacaaccag agcgaggcgg ggtctcacac cctccagagc atgtacggct 300  
 gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac gccgcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 820  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 820  
gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggtc 420  
agatctccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 821  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 821  
gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
aagattacat cgccctgaac gaggacctga gctcctggac cgccgaggac acggcggtc 420  
agatcaccca gcgcaagtgg gagggcgccc gtgagcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 822  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 822  
gctcccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagaacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggtc 420  
agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 823  
<211> 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 823

```
gctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacctggg gccggacggg cgcctctcc gcgggcataa ccagtacgcc tacgacggca 360
aagattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546
```

&lt;210&gt; 824

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 824

```
gctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgcctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcctggac gccgcggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546
```

&lt;210&gt; 825

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 825

```
gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggtta ctacaaccag agcgaggccg ggtctcacat catccaggtg atgtatggct 300
gcgacgtggg gccggacggg cgcctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcctggac gccgcggac acggcggctc 420
agatctcca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546
```

&lt;210&gt; 826

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 826

```
gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
```



cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgcctctcc ggggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac acggcggctc 420  
 agatctccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 827  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 827  
 gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgcctctcc ggggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac acggcggctc 420  
 agatcacca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 828  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 828  
 gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctctcc ggggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac acggcggctc 420  
 agatctccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

<210> 829  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 829  
 gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccaggtg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctctcc ggggcataa ccagtacgcc tacgacggca 360  
 agaattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac acggcggctc 420  
 agatctccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480

agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 830  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 830gtccccactc catgaggtat ttccacacct cgtgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtggggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtcgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcgcggac acggcggtc 420  
agatcaccca gcgaagtgg gaggggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 831  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 831  
gtccccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtggggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtcgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac acggcggtc 420  
agatctccca gcgaagtgg gaggggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 832  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 832  
gtccccactc catgaggtat ttccacacct cgtgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtggggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtcgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac acggcggtc 420  
agatcaccca gcgaagtgg gaggggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 833  
<211> 546  
<212> DNA

<213> Homo sapiens

<400> 833

```

gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccgggccgc ggggagcccc    60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca    120
cgagtccgag gaaggagccg cggggcgccat ggatagagca ggagggggccg gagtattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc    240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct    300
gcgacgtggg gccggacggg cgctcctcc cggggcataa ccagtccgcc tacgacggca    360
aggattacat gcacctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc    420
agatctccca gcgaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg    480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac aagctggagc    540
gcgctg                                           546

```

<210> 834

<211> 912

<212> DNA

<213> Homo sapiens

<400> 834

```

gggggcagtg gccctgaccg agacctgggc tggtcccaac tccatgaggt attccacac    60
ctcctgttcc cggcccggcc cgggggagcc ccgttcacac accgtgggct acgtggacga    120
cacgtgttcc gtgaggttcg acagcgacgc cagagtccg aggaaggagc cgcgggcgcc    180
atgatagagc caggaggggc cggagtattg ggaccgggag acacagatct ccaagaccaa    240
cacacagact taccgagaga gcctgcggaa cctgcgcggc tactacaacc agagcgaggc    300
cgggtctcac acctccaga gcatgtacgg ctgcgacgtg ggcccgagc ggccctcct    360
ccgcgggcat aaccagtacg cctacgacgg caaggattac atcgacctga acgaggacct    420
gcgctcctgg accgcgcgg acacggcggc tcagatcacc cagcgcaagt gggaggcggc    480
ccgtgtggcg gacgagctga gacacctt ggagggcacg tgcgtggagt ggctccgag    540
atacctggag aacgggaagg agacgctgca gcgcgcggac ccccaaaga cacacgtgac    600
ccaccacccc atctctgacc atgaggccac cctgaggtgc tgggcctgg gcttctaccc    660
tgcggagatc aactgacct ggcagcggga tggcgaggac caaactcagg aactgagct    720
tgtggagacc agaccagcag gagatagaac cttccagaag tgggcagctg tgggtgtgcc    780
ttctggagaa gagcagagat acacatgcca tgtacagcat gaggggctgc cgaagccct    840
caccctgaga tgggagccgt cttccagtc caccgtcccc atcgtgggca ttgttctgg    900
cctggctgtc ct                                           912

```

<210> 835

<211> 546

<212> DNA

<213> Homo sapiens

<400> 835

```

gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgggccgc ggggagcccc    60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca    120
cgagtccgag gaaggagccg cggggcgccat ggatagagca ggagggggccg gagtattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc    240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct    300
gcgacgtggg gccggacggg cgctcctcc cggggcataa ccagtacgcc tacgacggca    360
aggattacat gcacctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc    420
agatcaccca gcgaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg    480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc    540
gcgctg                                           546

```

<210> 836

<211> 546

<212> DNA

<213> Homo sapiens

<400> 836

```

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420
agatctccca gcgcaagttg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

```

<210> 837

<211> 546

<212> DNA

<213> Homo sapiens

<400> 837

```

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420
agatctccca gcgcaagttg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

```

<210> 838

<211> 546

<212> DNA

<213> Homo sapiens

<400> 838

```

gctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420
agatcaccca gcgcaagttg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 839

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 839

```

atgcgggtca cggcaccg aaccgtctc ctgctgctc cggcggccct ggccctgacc 60
gagacctggg cggctccca ctccatgagg tatttcaca cgccatgtc ccggcccggc 120
cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180

```

gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 aggatgtatg gctgcgacgt ggggccggac gggcgctcc tcccgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcggcg 480  
 gacaccgagg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacacgtgg agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc aggtgga 1017

&lt;210&gt; 840

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 840

atcggggtca cggcaccccg aaccgtctc ctgctgctc cgcgggcct ggccctgacc 60  
 gagacctggg ccggctcca ctccatgagg tatttcaca ccgcatgtc ccggcccggc 120  
 cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggtc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggccggac gggcgctcc tcccgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcggcg 480  
 gacaccgagg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacacgtgg agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc aggtgga 1017

&lt;210&gt; 841

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 841

gctcccactc catgaggtat ttccacaccg ccattgtccc gcccgccgc ggagagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttctg gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgaggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat gcacctgaac gaggacctgc gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac acgtggagc 540  
 gcgcgg 546

&lt;210&gt; 842

<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 842  
gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggt 300  
gcgacctggg gcccgacggg cgctctctcc ggggcatga ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctctggac cgcggcggac acccggtc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
gcgcgg 546

<210> 843  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 843  
gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaagc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300  
gcgacctggg gcccgacggg cgctctctcc ggggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctctggac cgcggcggac acccggtc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
gcgcgg 546

<210> 844  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 844  
gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300  
gcgacctggg gcccgacggg cgctctctcc ggggcataa ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctctggac cgcggcggac acccggtc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtgcagc 540  
gcgcgg 546

<210> 845  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 845  
atgctgtgta tggcgccccg aaccgtctc ctgctgctc cggcggccct ggccctgacc 60

gagacctggg ccggtccca ctccatgagg tattttctaca cctccgtgtc ccggcccgcc 120  
 cgccggggagc cccgttcat ctacgtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caacctccag 360  
 agcatgtacg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcggcg 480  
 gacaccgagg ctacatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctcgcga gatacctgga gaacgggaag 600  
 gacacgctgg agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg gcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcgtgggc attgtgtgct gcctggctgt ctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctgtgtg atgttagga ggaagagctc aggtgga 1017

<210> 846

<211> 547

<212> DNA

<213> Homo sapiens

<400> 846

ggctcccact ccatgaggtt ttccacacc tccgtgtccc ggcccggccg cggggagccc 60  
 cgcttcatct cagtgggcta cgtggacgac accagttcg tgaggttcga cagcgacgcc 120  
 gcgagtccga gagaggagcc gggggcgccg tggatagagc aggaggggcc ggagtattgg 180  
 gaccggaaca cacagatcta caaggcccag gcacagactg accgagagag cctgcggaac 240  
 ctgcgcggct actacaacca gagcgaggcc ggggtctaca cctccagag catgtacggc 300  
 tgcgacgtgg ggccggacgg gcgcctctc cgccggcata accagtacgc ctacgacggc 360  
 aaggattaca tcgcctgaa cgaggacctg cgctctgga ccgcggcgga caccgcggct 420  
 cagatcacc agcgaagtg ggaggcgcc cgtgtggcgg agcaggacag agcctacctg 480  
 gagggcacgt gcgtggagtg gctccgaga tacctggaga acgggaagga cagctggag 540  
 cgcgcg 547

<210> 847

<211> 546

<212> DNA

<213> Homo sapiens

<400> 847

gtcccactc catgaggtat ttctacacct ccgtgtccc ggcccggccg ggggagcccc 60  
 gcttcatct agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggcc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg gcctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat gcctgaac gaggacctgc gctctggac cgcgcgccg accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggac acgctggagc 540  
 gcgcgg 546

<210> 848

<211> 1052

<212> DNA

<213> Homo sapiens

<400> 848

atgcggtca cggcgcccc aacctctc ctgctgctt gggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc cggccccgc 120  
 cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggtc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccgaggtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcga ccgctccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tcccgggta tgaccaggac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccgcg ctcagatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcaggac 540  
 agagcctacc tggaggcct gtgctggag tgcctcgca gatacctga gaacgggaag 600  
 gagacgtgc agcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggtca ccctgagtg ctggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtggcgagct gtgtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tctccagc ccaccgtcc catcgtggg attgtgtg gcctggctgt cctagcagtt 960  
 gtgtcatcg gagctgtgt cgtgctgtg atgtgtagga ggaagagctc aggtggactg 1020  
 ctgtgatgtg taggaggaag agctcaggtg ga 1052

&lt;210&gt; 849

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 849

gctccactc catgaggtat ttctacaccg ccattgtccc gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctc gcgggtatga ccaggacgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgggaccc cccaaagaca catgtgacc accacccat ctctgacct gaggtcaccc 600  
 tgaggtgctg ggccctggg ttctacctg cggagatcac actgacctg cagcgggatg 660  
 gcgaggacca aactcaggac accgagctt tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgt gtggtgcct ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgcc aagccctca cctgagatg gg 822

&lt;210&gt; 850

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 850 gctccactc catgaggtat ttctacaccg ccattgtccc gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctc gcgggtatga ccaggacgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtgcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcggcg 546

&lt;210&gt; 851



<211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 851

```

atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggcctgacc      60
gagacctggg ccggctccca ctccatgagg tattttctaca ccgcatgtc ccggcccggc      120
cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt cgtgaggttc      180
gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga gcaggagggg      240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag      300
aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag      360
aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggta tgaccaggac      420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg      480
gacaccgagg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg      540
agagcctacc tggagggcct gtgcgtggag tcgtccgca gatactgga gaacgggaag      600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac      660
catgagggtca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc      720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca      780
ggagatagaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga      840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg      900
tcttcccagt ccaccgtcc catcgtgggc attgtgtctg gcctggctgt cctagcagtt      960
gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga      1017
  
```

<210> 852  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 852

```

atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggcctgacc      60
gagacctggg ccggctccca ctccatgagg tattttctaca ccgcatgtc ccggcccggc      120
cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt cgtgaggttc      180
gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga gcaggagggg      240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag      300
aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag      360
aggatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggta tgaccaggac      420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg      480
gacaccgagg ctacatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg      540
agagcctacc tggagggcct gtgcgtggag tcgtccgca gatactgga gaacgggaag      600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac      660
catgagggtca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc      720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca      780
ggagatagaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga      840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg      900
tcttcccagt ccaccgtcc catcgtgggc attgtgtctg gcctggctgt cctagcagtt      960
gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga      1017
  
```

<210> 853  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 853

```

atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggcctgacc      60
gagacctggg ccggctccca ctccatgagg tattttctaca ccgcatgtc ccggcccggc      120
cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt cgtgaggttc      180
gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga gcaggagggg      240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag      300
  
```

aacctgcga ccgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtacg gctgcgacgt ggggcccggac gggcgctcc tccggggta tgaccaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagtcctg gaccgcggcg 480  
 gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagcgg 540  
 agagcctacc tggagggcac gtgcgtggag tcgtccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggtca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcgtgggc attgtgtgct gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctgtgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 854  
 <211> 404  
 <212> DNA  
 <213> Homo sapiens

<400> 854  
 ggcccatgg atagagcagg aggggcccga gtattgggac cgggagacac agatctcaa 60  
 gaccaacaca cagacttacc gagagaacct gcgcaccgag ctccgtact acaaccagag 120  
 cgaggccggg tctcacatca tccagaggat gtacggctgc gacgtgggc cggacggcg 180  
 cctctccgc gggtatgacc agtacgccta cgacggcaag gattacatcg cctgaacga 240  
 ggacctgagc tcttgaccg cggcgagac cgcggctcag atcaccagc gcaagtggga 300  
 ggccggccgt gtggcgagc aggacagagc ctacctggag ggctgtgag tggagtgcgt 360  
 ccgcagatac ctggagaacg ggaaggagac gctgcagcgc gcgg 404

<210> 855  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 855  
 atgcgggtca cggcgccccg aacctcctc ctgctgtctt ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgttcat tcagtgaggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggaaggag cccggggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 aacctgcga tcgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtacg gctgcgacgt ggggcccggac gggcgctcc tccggggta tgaccaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagtcctg gaccgcggcg 480  
 gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcct gtgcgtggag tcgtccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcg 619

<210> 856  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 856  
 atgcgggtca cggcgccccg aacctcctc ctgctgtctt ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgttcat caccgtggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggaaggag cccggggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcga ccgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360

```

aggatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggta tgaccaggac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggtca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttccagc ccaccgtccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960
gtggtcatcg gagctgtgtg cgctgctgtg atgttagga ggaagagctc aggtgga 1017

```

&lt;210&gt; 857

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 857

```

atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60
gagacctggg ccggtcccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360
aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggta tgaccaggac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540
agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggtca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttccagc ccaccgtccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960
gtggtcatcg gagctgtgtg cgctgctgtg atgttagga ggaagagctc aggtgga 1017

```

&lt;210&gt; 858

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 858

```

atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60
gagacctggg ccggtcccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca catcatccag 360
aggatgtacg gctgcgacgt ggggcccggac gggcgccctcc tccgcgggta tgaccaggac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540
agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggtca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttccagc ccaccgtccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960

```

gtggtcatcg gagctgtggt cgctgctgtg atgtgttagga ggaagagctc aggtgga 1017

<210> 859  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 859  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gtttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtttggct 300  
 gcgacgtggg gcccgacggg cgctcctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 860  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 860  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gtttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccc 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gcccgacggg cgctcctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 861  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 861  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gtttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gcccgacggg cgctcctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 862  
 <211> 1017  
 <212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 862

```

atgcggttca cggcgccccg aacctctctc ctgctgtctt ggggggcagt ggccttgacc    60
gagacctggg cgggtccca ctccatgagg tatttctaca cggccatgtc cgggccggc    120
cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc    180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg    240
ccggagtatt gggagcggga gacacagatc tccaagacca acacacagac ttaccgagag    300
aacctgcgca ccgcgctccg ctactacaac cagagcgagg ccgggttca catcatccag    360
aggatgtacg gctgcgacgt ggggcccggac gggcgctcc tcccgggta tgaccaggac    420
gcttacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcggcg    480
gacaccgagg ctacatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcagctg    540
agagcctacc tggagggcct gtgcgtggag tcgtccgca gatactgga gaacgggaag    600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac    660
catgagggtca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc    720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca    780
ggagatagaa cttccagaa gtgggcagct gtgggtgtgc cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg    900
tcttccagt ccaccgtcc catcgtgggc attgtgtctg gcctggctgt cctagcagtt    960
gtggatcatg gagctgtggt cgctgtgtg atgttagga ggaagagtc aggtgga    1017

```

&lt;210&gt; 863

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 863

```

gtctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc    60
gtttcatcac cgtgggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca    120
cgagtccgag gaaggagccg cgggcgccat gcatagagca ggaggggccc gattattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC ctgcgcaccg    240
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct    300
gcgacgtggg gccggacggg cgctctctcc ggggcataa ccaggacgcc tacgacggca    360
aggattacat cgcctgaac gaggacctga gctctggac cgcggcggac accgcggctc    420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg    480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgtgcagc    540
gcgcggg                                         546

```

&lt;210&gt; 864

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 864

```

gtctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc    60
gtttcatcac cgtgggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca    120
cgagtccgag gaaggagccg cgggcgccat gcatagagca ggaggggccc gattattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcgcaccg    240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct    300
gcgacctggg gccgcacggg cgctctctcc ggggtataa ccagttagcc tacgacggca    360
aggattacat cgcctgaac gaggacctga gctctggac cgcggcggac accgcggctc    420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg    480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgtgcagc    540
gcgcggg                                         546

```

&lt;210&gt; 865

&lt;211&gt; 546

<212> DNA  
 <213> Homo sapiens

<400> 865  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacac cgtgggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 866  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 866  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacac cgtgggtac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcggcatga ccagtccgc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 867  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 867  
 atcggggtca cggcacccc aacctctc ctgtctctt cggcgccct ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttcaca ccgccatgc ccggccggc 120  
 cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggtc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcgggta taaccagtta 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggc 480  
 gacaccgagg ctacgatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcaggac 540  
 agagcctacc tggaggcct gtgcgtggag tcgtccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcg 619

<210> 868  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 868  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60

gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 869  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 869  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcagagt cgtggagtcg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 870  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 870  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 871  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 871  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtcgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 872  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 872  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccagtacgc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 873  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 873  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 874  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 874  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggtatga ccaggacgc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcggaccc ccaaaagaca catgtgaccc accacccat ctctgacat gaggcaccc 600  
 tgaggctgtg ggccctgggc ttctacctg cgagatcac actgacctg cagcgggatg 660  
 gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780



tacagcatga ggggctgccg aagcccctca ccctgagatg gg

822

<210> 875  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 875  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcacac cgtgggctac gtggacgaca cgtgttcgt gaggttcgac agcgacgcca 120  
cgagtcagag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC ctgcgcaccg 240  
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagcggaga gcctacctgg 480  
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 876  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 876  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcacac cgtgggctac gtggacgaca cgtgttcgt gaggttcgac agcgacgcca 120  
cgagtcagag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC ctgcgcaccg 240  
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg 480  
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 877  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 877  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcacac cgtgggctac gtggacgaca cgtgttcgt gaggttcgac agcgacgcca 120  
cgagtcagag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagAAC ctgcgcaccg 240  
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgcctcctcc gcgggtatga ccaggacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgcggagtcg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 878  
<211> 895  
<212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 878

```

atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggcctgacc    60
gagacctggg ccggtccca ctccatgagg tattttaca ccgcatgtc ccgcccggc    120
cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc    180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catgtaga gcaggagggg    240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag    300
aacctgcga ccgctccg ctactacaac cagagcgagg ccgggtctca caccctccag    360
aggatgtacg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca taaccagtac    420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgcg    480
gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg ccggtgtggc ggagcagctg    540
agagcctacc tggaggcgga gtgcgtggag tcgctccgca gatactgga gaacgggaag    600
gacaagctgg agcgcgtga cccccaag acacagtgga cccaccacc catctctgac    660
catgaggcca cctgagggtg ctgggcccgt ggtttctacc ctgcggagat cacactgacc    720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca    780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atggg    895

```

&lt;210&gt; 879

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 879

```

gtctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc    60
gtttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca    120
cgagtccgag gaaggagccg cgggcgcat ggatagagca ggaggggccg gagtattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg    240
cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct    300
gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca    360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgcgggac acccgggctc    420
agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcagctgaga gcctacctgg    480
agggcctgtg cgtggagtgc ctcccgagat acctggagaa cggaaggag acgctgcagc    540
gcgcggg    546

```

&lt;210&gt; 880

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 880

```

gtctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc    60
gtttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca    120
cgagtccgag gaaggagccg cgggcgcat ggatagagca ggaggggccg gagtattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg    240
cgctccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtacggct    300
gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca    360
aggattacat caccctgaac gaggacctga gctcctggac cgcgcgggac acccgggctc    420
agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg    480
agggcctgtg cgtggagtgc ctcccgagat acctggagaa cggaaggag acgctgcagc    540
gcgcggg    546

```

&lt;210&gt; 881

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 881

```

atgcgggtca cggcaccg aaccgtctc ctgctgctc egggggccct ggccctgacc 60
gagacctggg cgggtccca ctccatgagg tatttccaca ccgcatgtc ccggcccggc 120
cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca cacttggcag 360
aggatgtatg gctgcgacct ggggcccgcg gggcgccctc tccgcggtta taaccagtta 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcaggac 540
agagcctacc tggagggcct gtgctggag tcgctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgagggtg ctgggcccctg ggttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccaccatccc catctgggc attgttctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgttagga ggaagagtc aggtgga 1017

```

&lt;210&gt; 882

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 882

```

gctccactc catgaggtat ttccacaccg ccatgtccc gcccggccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttctg gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300
gcgacctggg gcccgacggg cgctctctcc gcgggtataa ccagttgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcgcgggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcggg 546

```

&lt;210&gt; 883

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 883

```

gctccactc catgaggtat ttccacaccg ccatgtccc gcccggccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttctg gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300
gcgacctggg gcccgacggg cgctctctcc gcgggtataa ccggttagcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctctggac cgcgcgggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcggg 546

```

&lt;210&gt; 884

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 884

```

atgcgggtca cggcaccg aaccgtctc ctgtctctt cggcgccct ggcctgacc 60
gagacctggg cgggtccca ctccatgagg tatttccaca cggccatgtc cggcccggc 120
cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcg ctactacaac cagagcgagg cgggtctca cacttggcag 360
aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcgggta taaccagtta 420
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctctg gaccgcggcg 480
gacaccgcgg ctacgatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540
agagcctacc tggagggcct gtgcgtggag tggtccgca gatactgga gaacgggaag 600
gagacgtgc agcgcggga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggctctacc ctgcggagat cacttgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cctccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccaccatccc catcgtgggc attgtgtgtg gcttggtgt cctagcagtt 960
tggtcatcg gagctgtgtg cgctactgtg atgttagga ggaagagtc aggtgga 1017

```

&lt;210&gt; 885

&lt;211&gt; 543

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 885

```

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcatcac cgtgggtac gtggacgaca cgctgttctg gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccc ggtctcacac ttggcagagg atgtatggct 300
gcgacctggg gcccgacggg cgctcctcc gcgggtataa ccagttagcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gtctacctgg 480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcg 543

```

&lt;210&gt; 886

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 886

```

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcatcac cgtgggtac gtggacgaca cgctgttctg gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccc ggtctcacac ttggcagagg atgtatggct 300
gcgacctggg gcccgacggg cgctcctcc gcgggtataa ccagttagcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcctgtg cgtggagtcg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcg 546

```

&lt;210&gt; 887

&lt;211&gt; 1017

<212> DNA  
<213> Homo sapiens

<400> 887

```

atgcggtca cggcgccccg aaccgtctc ctgtctct cgggagccct ggccctgacc 60
gagacctggg cgggtccca ctccatgagg tattttaca cggccatgtc ccggcccggc 120
cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac tgaccgagtg 300
agcctgcgga acctgcgcgt ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggcccggc gggcgctcc tccggggca tgaccagtc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcggcg 480
gacacggcgg ctcatatc ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtgtg cgctactgtg atgttagga ggaagagtc aggtgga 1017

```

<210> 888  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 888

```

gtcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gtttcatgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gatggcgccc cggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagaagtac aagcgccagg cacagactgg ccgagtgagc ctgcggaacc 240
tgccgggcta ctacaaccag agcgaggccc ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg gcctcctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat gcctgaac gaggacctga gctcctggac cgcggcggac acggcggtc 420
agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctg 480
agggcctgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 889  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 889

```

atgcggtca cggcgccccg aacctctc ctgtctct gggggcagt ggccctgacc 60
gagacctggg ctggtccca ctccatgagg tattttaca cggccatgtc ccggcccggc 120
cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tcaagacca acacacagac ttaccgagag 300
gacctgcgga ccctgtccg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtttg gctgcgacgt ggggcccggc gggcgctcc tccggggta ccaccaggac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgcggcg 480
gacacggcgg ctcatatc ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggagggcga gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacactga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780

```

ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tttcccaagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg gtgtgttaga ggaagagctc aggtgga 1017

<210> 890  
 <211> 904  
 <212> DNA  
 <213> Homo sapiens

<400> 890  
 gcgggtcacg gcgccccgaa cctctctcct gctgctctgg ggggcagtgg cctgaccga 60  
 gacctgggct ggctccact ccatgaggta ttctacacc gccatgtccc ggcccgccg 120  
 cggggagccc cgtttcatca ccgtgggcta cgtggacgac acgctgttcg tgaggttca 180  
 cagcgacgcc acgagtcca ggaaggagcc gcgggcgcca tggatagagc aggaggggccc 240  
 ggagtattgg gaccgggaga cacagatctc caagaccaac acacagactt accgagagag 300  
 cctgcggaac ctgcgcggct actacaacca gagcgaggcc gggctctaca cctccagag 360  
 gatgtttggc tgcgacgtgg ggccggacgg gcgcctctc cgccgggtacc accaggacgc 420  
 ctacgacggc aaggattaca tcgcctgaa cgaggacctg agtccttga cgcgcgga 480  
 cagggcggct cagatcacc agcgaagtg ggaggcgcc cgtgtggcg agcagctgag 540  
 agcctacctg gagggcgagt gcgtggagt gctccgaga tacctggaga acgggaagga 600  
 gacgtgcag cgcgcggacc cccaaagac acacgtgacc caccaccca tctctgacca 660  
 tgaggccacc ctgaggtgct ggccctggg cttctaccct gcggagatca cactgacctg 720  
 gcagcgggat ggcgaggacc aaactcagga cactgagctt gtggagacca gaccagcagg 780  
 agatagaacc ttccagaagt gggcagctgt ggtggtgcct tctggagaag agcagagata 840  
 cacatgccat gtacagcatg aggggctgcc gaagccctc accctgagat gggagccgtc 900  
 ttcc 904

<210> 891  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 891  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gttcatcac cgtgggtac gtggacgaca cgtgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgcat gcatagagca ggaggggccc gattattggg 180  
 accgggagac acagatctc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgctccgta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtttggct 300  
 gcgacgtggg gccggacggg gcctctctc gcgggtacca ccaggacgcc tacgacggca 360  
 aggtattac gcctctgaac gaggacctga gctctggac cgccgagac acggcggtc 420  
 agatcaccca gcgcaagtgg gagcgggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtgc cgtggagtgg ctccgagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 892  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 892  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gttcatcac cgtgggtac gtggacgaca cgtgttcgt gaggttcgac agcgacgcca 120  
 cgagtccgag gaaggagccg cgggcgcat gcatagagca ggaggggccc gattattggg 180  
 accgggagac acagatctc aagaccaaca cacagactta ccgagagaa ctgcgcaccg 240  
 cgtccgta ctacaaccag agcgaggccg ggtctcacac cctccagaat atgtatggct 300  
 gcgacgtggg gccggacggg gcctctctc gcgggtacca ccaggacgcc tacgacggca 360

aggattacat cgccctgaac gaggacctga gctcctggac cgccgaggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 893  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 893  
 atgtctgtca tggcgccccg aacctctc ctgtctctt cgccggccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tattctaca cctccgtgtc ccggcccgcc 120  
 cgccggggagc ccgcttcat ctactgggc tactggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggcccggac gggcgctcc tccgcccga taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtctctg gaccgcccgc 480  
 gacacggcgg ctcatatc ccagcgcaag ttggaggcgg ccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacaagctgg agcgcgctga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg gggttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 tagagatagaa cctccagaa gtggacagct gtggtgtgtc cttctggaga agagcagaga 840  
 tacacatgcc atgtacgca tgaggggctg ccgaagcccc tcaccctgag atgggagccg 900  
 tcttccagt ccactgtcc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctgtgtg atgtgtagga ggaagagttc aggtgga 1017

<210> 894  
 <211> 993  
 <212> DNA  
 <213> Homo sapiens

<400> 894  
 gtctctctgc tgctctggc ggccctggcc ctgaccgaga cctgggcccgg ctccactcc 60  
 atgaggtatt tctacacctc cgtgtcccgg ccggcccgcg gggagccccg cttcatctca 120  
 gtgggctacg tggacgacac ccagtctgt aggttcgaca gcgacgccg gagtccgaga 180  
 gaggagccgc gggcgccgtg gatagagcag gaggggcccgg agtattggga ccgggagaca 240  
 cagatctcca agaccaacac acagacttac cgagagagcc tgcggaacct gcgcggctac 300  
 tacaaccaga gcgaggcccgg gtctcacatc atccagagga tgtatggctg gcacctgggg 360  
 ccgacgggc gcctcctccg cgggcatgac cagtccgct acgacggcaa ggattacatc 420  
 gcctgaacg aggacctgag ctcttgacc gggcggaca ccgcggctca gatcaccag 480  
 cgcaagtggg aggcggcccgtgtggcgag cagctgagag cctacctgga gggcctgtgc 540  
 gtggagtggc tccgagata cctggagaac gggaaggaga cgctgcagcg cgcggacccc 600  
 ccaaagacac acgtgaccca ccacccgtc tctgacatg aggccacct gaggtgtctg 660  
 gccctgggt tctacctgc ggagatcaca ctgacctggc agcgggatgg cgaggacaa 720  
 actcaggaca ctgagctgt ggagaccaga ccagcaggag atagaacctt ccagaagtgg 780  
 gcagctgtgg ttgtgccttc tggagaagag cagagatata catgccatgt acagcatgag 840  
 gggctgccga agccctcac cctgagatgg gagcatctt ccagtcac catcccatc 900  
 gtgggcattg ttgtggcct ggctgtcta gcagtgtgg tcatcggagc tgtgtgtgt 960  
 actgtgatgt gtaggaggaa gagtcaggt gga 993

<210> 895  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 895

```

gctccactc catgaggtat ttctacacct cegtgtcccg gcccgccgc ggggagcccc 60
gcttcattc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc ggggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac acggcggtc 420
agatctccca gcgcaagttg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtg ctccgagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

```

&lt;210&gt; 896

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 896

```

gctccactc catgaggtat ttctacacct cegtgtcccg gcccgccgc ggggagcccc 60
gcttcattc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgctcctcc ggggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac acggcggtc 420
agatctccca gcgcaagttg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtg ctccgagat acctggagaa cggaaggag acgtgcagc 540
gcgcgaccc ccaaagaca cactgaccc accacccat ctctgacct gaggccacc 600
tgaggtgctg ggcctgggt ttctacctg cggagatcac actgacctg cagcgggatg 660
gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720
tccagaagtg gacagctgtg gtgtgcctt ctggagaaga gcagagatac acatgccatg 780
tacagcatga ggggtgccg aagccctca cctgagatg gg 822

```

&lt;210&gt; 897

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 897

```

atgctgtgta tggcgcccc aaccgtctc ctgctgtct cggcgccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg ttttttaca cctcgtgtc ccggccggc 120
cgcggggagc cccgttcat ctccgtggg tacgtggacg acaccagtt cgtgaggtc 180
gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360
agcatgtacg gctgcgacgt ggggcgggac gggcgctcc tccgcgggca taaccagtac 420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcctg gaccgccgcg 480
gacacggcgg ctacatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagcgg 540
agagcctacc tggaggcgga gtgcgtggag tggctccga gatacctgga gaacgggaag 600
gacaagctgg agcgcgctg 619

```

&lt;210&gt; 898

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 898

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gtttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac acggcggtc 420  
 agatctccca gcgcaagttg gaggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtg ctcgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

&lt;210&gt; 899

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 899

gctccactc catgaggtat ttctacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gtttcatctc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac acggcggtc 420  
 agatctccca gcgcaagttg gaggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtg ctcgcagat acctggagaa cggaaggac aagctggagc 540  
 gcgctg 546

&lt;210&gt; 900

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 900atgcgggtca cggcaccg aaccgtctc ctgtctct cggcgccct ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttcaca ccgcatgtc ccgcccggc 120  
 cggggggagc cccgttcat caccgtggg tacgtggac acacgtgtt cgtgaggtc 180  
 gacagcgag ccacagtc gaggaaggag ccgcccgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagat tccaagacca acacacagac ttaccgagag 300  
 aacctgcga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttgagc 360  
 aggatgtatg gctcgacct ggggccgac ggggcctcc tccgaggta taaccagta 420  
 gctacgagc gcaaggatta catgccctg aacgaggacc tgagtcctg gaccgaggc 480  
 gacaccggg ctcatcac ccagcgcaag tgggaggcg cccgtgaggc ggagcagctg 540  
 agagcctacc tggaggcct gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgcgga ccccccag acacatgtga cccaccacc catcttgac 660  
 catgaggcca cctgaggtg ctggccctg ggttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgagggctg ccgaagccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatcc catcgtggg attgtgtg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgt cgtactgtg atgttagga ggaagagtc aggtgga 1017

&lt;210&gt; 901

&lt;211&gt; 820

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 901

tccactcca tgaggtatth ccacaccgcc atgtcccggc cggcccgagg ggagccccgc 60  
 ttcacaccg tgggctacgt ggacgacacg ctgttcgtga ggttcgacag cgacgccacg 120  
 agtccgagga aggagccggc ggcccatgg atagagcagg agggggccga gtattgggac 180  
 cgggagacac agatctccaa gaccaacaca cagacttacc gagagaacct gcgcaccggc 240  
 ctccgtact acaaccagag cgaggccggg tctcacactt ggagaggat gtatggctgc 300  
 gacctggggc ccgacggggc cctcctccgc ggggtataacc agttagccta cgacggcaag 360  
 gattacatcg cctgaacga ggacctgagc tcttgaccg cggcggacac cgcggctcag 420  
 ataccaccg gcaagtggga ggccggccgt gaggcggagc agctgagagc ctacctggag 480  
 ggctgtgagc tggagtggct ccgagatac ctggagaacg ggaaggagac gctgcagcgc 540  
 gcggaccccc caaagacaca tctgaccac caccatct ctgacctga ggccaccctg 600  
 aggtgtctggc cctgggctt ctacctgcg gagatcacac tgacctggca gcgggatggc 660  
 gagaccacaa ctacggacac cgagcttctg gagaccagac cagcaggaga tagaaccttc 720  
 cagaagtggg cagctgtggt ggtgccttct ggagaagagc agagatacac atgcatgta 780  
 cagcatgagg ggctgccgaa gccctcacc ctgagatggg 820

&lt;210&gt; 902

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 902

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gtttcattgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gagggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300  
 gcgacctggg gccgacggg cgctcctcc ggggtataa ccagttagcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

&lt;210&gt; 903

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 903

atgcgggtca cggcaccgcc aaccgtctc ctgtctctc cggcgccct gccctgacc 60  
 gagacctggg ccggctccca ctccatgagg tatttcaca ccgcatgtc ccggcccgcc 120  
 cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacc ccacgagtc gaggaaggag ccgcggcgcc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgagga acctgcggc ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccggggta taaccagtta 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccggcg ctacatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt ctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

&lt;210&gt; 904

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 904

```

atgcgggtca cggcaccceg aaccgtctc ctgtgtctct cggcgccct ggcctgacc 60
gagacctggg cgggtccca ctccatgagg tatttccaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgc ctactacaac cagagcgagg ccgggtctca cacttggcag 360
aggatgtatg gctgcgacct ggggcccgcg gggcgccctc tccgcgggta taaccagtta 420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tcgtccgca gatacctgga gaacgggaag 600
gagacgtgcg agcgcgcgga cccccaaag acacatgtga ccaccaccc catctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900
tcttccagt ccaccatccc catcgtgggc attgtgtctg gcttggtgt ctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

```

&lt;210&gt; 905

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 905

```

gctcccactc catgaggtat ttccacaccg ccattgtccc gcccgccgc ggggagcccc 60
gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcagcgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcagggccg ggtctcacac ttggcagagg atgtacggct 300
gcgacgtggg gcccgacggg cgcctcctcc gcgggtataa ccagttagcc tacgacggca 360
aggattacat gcctctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gctacctgg 480
agggcctgtg cgtggagtggt ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 906

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 906

```

atgcgggtca cggcgccccg aaccgtctc ctgtgtctct ggggggcagt ggcctgacc 60
gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgttcat tgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag 300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360
acgatgtatg gctgcgacgt ggggcgggac gggcgccctc tccgcgggca taaccagta 420
gcctacgacg gcaaagatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480
gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga gaacgggaag 600
gagacgtgcg agcgcgcgga cccccaaag acacacgtga ccaccaccc cgtctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780

```

ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgttagga ggaagagctc aggtgga 1017

<210> 907  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 907  
 atgcggttca cggcgcccc aacgtctct ctgctgctt ggggggcagt ggccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tattttctaca ccgcatgtc cggccccgc 120  
 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gagacgcagc ccgcagctcc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggcccggc gggcgctcc tccgcgggca taaccagtac 420  
 gctacgacg gcaaagatta catgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccggcg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggtccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcggga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgttagga ggaagagctc aggtgga 1017

<210> 908  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 908  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gtttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccgt ggatagagca ggaggggccc gattattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccc ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacatga gctctggac cgcgccggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 909  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 909  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gtttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gattattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccc ggtctcacac ttggcagacg atgtatggct 300

gcgacgtggg gccggacggg cgctctcc gcgggcataa ccagtagcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gtcctggac cgccgggac acccgggctc 420  
 agatcaccca gcgaagtgg gagggcgccc gtgaggcgga gcagctgaga gctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540  
 gcggcg 546

<210> 910  
 <211> 1012  
 <212> DNA  
 <213> Homo sapiens

<400> 910  
 atcggggtca cggcgccccg aaccgtctc ctgtctctt ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggccggc 120  
 cgcggggagc ccgcttcat tgcagtggg tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcg catggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggcccggac gggcgctcc tccggggca taaccagtac 420  
 gcctacgacg gcaaagatta catgccttg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccgagg ctcatcac ccagcgcaag tgggaggcgg ccgctgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtggg attgtgtctg gctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagtc ag 1012

<210> 911  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 911  
 atcggggtca cggcgccccg aaccgtctc ctgtctctt ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggccggc 120  
 cgcggggagc ccgcttcat tgcagtggg tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcg catggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggcccggac gggcgctcc tccggggca taaccagtac 420  
 gcctacgacg gcaaagatta catgccttg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccgagg ctcatcac ccagcgcaag tgggaggcgg ccgctgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacagtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtggg attgtgtctg gctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagtc aggtgga 1017

<210> 912  
 <211> 1017  
 <212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 912

```

atgcgggtca cggcgccccg aaccgtcttc ctgctgctct ggggggcagt ggccctgacc    60
gagacctggg cgggtcccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc    120
cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc    180
gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga gcaggagggg    240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag    300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag    360
acgatgtatg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca taaccagtac    420
gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg    480
gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg    540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag    600
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac    660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc    720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca    780
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atgggagcca    900
tcttccagt ccaccatccc catcgtgggc attgtgtctg gcttggtgt cctagcagtt    960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga    1017

```

&lt;210&gt; 913

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 913

```

atgcgggtca cggcgccccg aaccgtcttc ctgctgctct ggggggcagt ggccctgacc    60
gagacctggg cgggtcccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc    120
cgcgggggagc cccgcttcat tgcagtgggc tacgtggacg acaccagtt cgtgaggttc    180
gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga gcaggagggg    240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag    300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag    360
acgatgtatg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca taaccagtac    420
gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg    480
gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg    540
agagcctacc tggagggcct gtgcgtggag gggctccgca gacacctgga gaacgggaag    600
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac    660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc    720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca    780
ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcaccctgag atgggagcca    900
tcttccagt ccaccatccc catcgtgggc attgtgtctg gcttggtgt cctagcagtt    960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga    1017

```

&lt;210&gt; 914

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 914

```

atgcgggtca cggcgccccg aaccgtcttc ctgctgctct ggggggcagt ggccctgacc    60
gagacctggg cgggtcccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc    120
cgcgggggagc cccgcttcat tgcagtgggc tacgtggacg acaccagtt cgtgaggttc    180
gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga gcaggagggg    240
ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag    300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag    360
aggatgtatg gctgcgacgt ggggcccggac gggcgctcc tccgcgggca taaccagtac    420

```

gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctctg gaccgcgcg 480  
gacaccgcg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
agagcctacc tggagggcct gtgcgtggag tggtccgca gacacctgga gaacgggaag 600  
gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cacttgacc 720  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa cctccagaa gtgggcagct gtgggtggtc cttctggaga agagcagaga 840  
tacacatgcc atgtacgca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
tcttccagt ccaccatccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
gtggtcatcg gagctgtgt cgctactgtg atgttagga ggaagagtc aggttga 1017

<210> 915  
<211> 822  
<212> DNA  
<213> Homo sapiens

<400> 915  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
aagattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
gcgcggaccc ccaaagaca cactgaccc accacccgt ctctgacct gaggccacc 600  
tgaggtgctg ggccctgggc ttctacctg cgagatcac actgacctg cagcgggatg 660  
gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720  
tccagaagtg ggcagctgtg gtgtgcctt ctggagaaga gcagagatac acatgccatg 780  
tacagcatga ggggctgcc aagccctca cctgagatg gg 822

<210> 916  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 916  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggt 300  
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
aagattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
gcgcgg 546

<210> 917  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 917  
gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120

cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcggaggcc ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctctccc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 918  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 918  
 atcggggtca cggcggccc aaccgtctc ctgctgtctt ggggggcagt ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cggggggagc ccgcttcat tgacgtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgagagtc gaggacggag cccggggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggcgggac gggcgctcc tcgcgggca taaccagtac 420  
 gctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctacagatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcaggac 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggcctg ggtcttacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccacctccc catcgtggg attgtgtgtg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgttagga ggaagagctc aggtgga 1017

<210> 919  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 919  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gccgggccgc ggggagcccc 60  
 gcttcattgc agtgggtac gtggacgaca ccagttcgt gaggttcgac agcagcggc 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcggaggcc ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctctccc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 920  
 <211> 677  
 <212> DNA  
 <213> Homo sapiens

<400> 920  
 tacaccgcca tgtccgggcc cggccgggg gagccccgt tcattgcagt gggctacgtg 60



gacgacaccc agttcgtgag gttcgacagc gacgccgca gtccgaggac ggagccccgg 120  
 gcgccatgga tagagcagga ggggccggag tattgggacc ggaacacaca gatcttcaag 180  
 accaacacac agacttaccg agagaacctg cggatcgcgc tccgetacta caaccagagc 240  
 gaggccgggt ctacacttg cgagacgatg tatggctgcg acgtggggcc ggacggggcg 300  
 ctctcccgcg ggcataacca gtacgcctac gacggcaagg attacatcgc cctgaacgag 360  
 gacctgcgt cctggaccgc cgcggacacg gcggctcaga tcaccagcg caagtgggag 420  
 gcggcccgtg tggcggagca gctgagagcc tacctggagg gcgagtgcgt ggagtggctc 480  
 cgcagatacc tggagaacgg gaaggagacg ctgcagcgcg cggaccccc aaagacacac 540  
 gtgaccacac acccgtctc tgaccatgag gccaccctga ggtgctgggc cctgggcttc 600  
 taccctgctg agatcacact gacctggcag cgggatggcg aggaccaaac tcaggacact 660  
 gagcttgagg agaccag 677

<210> 921  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 921  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 922  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 922  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 923  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 923  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300

gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagttcgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 924  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 924  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa acagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 925  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 925  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 926  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 926  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 927  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 927  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgtctctcc gcggttataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 928  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 928  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctctcc cgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 929  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 929  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 930  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 930

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180
accggaacac acagatcttc aagaccaaca cacagactga ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360
aagattacat cgccctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 931

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 931

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360
aagattacat cgccctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 932

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 932

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctgc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360
aagattacat cgccctgaac gaggacctga gctcctggac cgcgccggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 933

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 933

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300

```

gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 934  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 934  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 935  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 935  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag gacggagacc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 936  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 936  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 937  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 937  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcggaccc ccaaagaca cactgaccc accaccccg tctgacctat gaggccacc 600  
 tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccctca cctgagatg gg 822

<210> 938  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 938  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcggaccc ccaaagaca cactgaccc accaccccg tctgacctat gaggccacc 600  
 tgaggtgctg ggccctgggc ttctaccctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatggaacct 720  
 tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccctca cctgagatg gg 822

<210> 939  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 939  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540

gcgcgg

546

<210> 940  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 940  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtccttgac cgcgccggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcggaccc ccaaagaca cactgaccc accaccccgt ctctgacct gaggccaccc 600  
 tgaggtgtcg gccctggcg ttctacctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg gcgagctgtg gtggtgctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgctg aagccctca ccctgagatg gg 822

<210> 941  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 941  
 gctcccactt catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtccttgac cgcgccggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 942  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 942  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtccttgac cgcgccggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 943  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 943  
 atgcgggtca cggcgccccg aacgctctc ctgctgtctt ggggggcagt ggccctgacc 60  
 gagacctggg ccggctccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcgggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggcccggac gggcgctcc tcccggggca taaccagtac 420  
 gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccggcg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tttcccaagt ccaccatccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagtc aggtgga 1017

<210> 944  
 <211> 993  
 <212> DNA  
 <213> Homo sapiens

<400> 944  
 gtctctctgc tgctctgggg ggcagtggcc ctgaccgaga cctgggcccgg ctcccactcc 60  
 atgaggtatt tctacaccgc catgtcccgg ccgcccgcg gggagccccg cttcattgca 120  
 gtgggctacg tggacgacac ccagttcgtg aggttcgaca gcgacgccg gagtccgagg 180  
 acggagcccc gggcgccatg gatagagcag gaggggcccgg agtattggga ccgggagaca 240  
 cagatctcca agaccaacac acagacttac cgagagaacc tgcggatcgc gtcctgctac 300  
 tacaaccaga gcgaggccgg gtctcacact tggcagacga tgtatggctg cgacgtgggg 360  
 ccggacgggc gcctcctccg cgggcataac cagtacgct acgacggcaa agattacatc 420  
 gccctgaacg aggacctgag ctcttgacc gcggcggaca ccgcggtca gatcaccag 480  
 cgcaagtggg aggcggcccg tgaggcggag cagctgagag cctacctgga gggcctgtgc 540  
 gtggagtggc tccgagaca cctggagaac gggaaggaga cgctgcagcg cgcgacccc 600  
 ccaaagacac acgtgaccca ccacccgctc tctgaccatg aggccaccct gaggtgtgtg 660  
 gccctgggct tctacctgc ggagatcaca ctgacctggc agcgggatgg cgaggaccaa 720  
 actcaggaca ctgagcttgt ggagaccaga ccagcaggag atagaacctt ccagaagtgg 780  
 gcagctgtgg tgggtccttc tggagaagag cagagataca catgcatgt acagcatgag 840  
 gggctgccga agccctcac cctgagatgg gagccatct cccagtcac catcccatc 900  
 gtgggcattg ttgtggcct ggctgtcta gcagttgtg tcatcggagc tgtgtgtcgt 960  
 actgtgatgt gtaggaggaa gagtcaggt gga 993

<210> 945  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 945  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccg cgggcgcat ggatagagca ggaggggccc gagtattggg 180



accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc ggggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 946  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 946  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ttgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc ggggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 947  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 947  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcggc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc ggggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 948  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 948  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc ggggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540

gcgcgg

546

<210> 949  
 <211> 1012  
 <212> DNA  
 <213> Homo sapiens

<400> 949  
 atgcgggtca cgcgccccg aaccgtcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tattttctaca ccgcatgtc ccggccccgc 120  
 cgcgggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtca gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaagatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctcatgtac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggcctg ggttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacgca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagat ccaccatccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc ag 1012

<210> 950  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 950  
 gctcccactc catgaggat ttctacaccg ccatgtcccg gcccgggcgc ggggagcccc 60  
 ccttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacggc 120  
 cgagtccgag gacggagccc cgggcgccat gtagtagagca ggagggggcg gattattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggcgg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgaggcggga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 951  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 951  
 atgcgggtca cgcgccccg aaccgtcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tattttctaca ccgcatgtc ccggccccgc 120  
 cgcgggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggccccgac gggcgctcc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480

gacaccgctg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgttagga ggaagagctc aggtgga 1017

<210> 952  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 952  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 953  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 953  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagaggac ctgcggaccc 240  
 tgctccgcta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 954  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 954  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 955  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 955  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcataa ccagtcgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 956  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 956  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagAAC ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcataa ccagtcgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 957  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 957  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagAAC ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacac catccagagg atgtctggct 300  
 gcgacgtggg gcccgacggg cgctctctcc gcgggtataa ccagtcgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 958

<211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 958  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 959  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 959  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 960  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 960  
 atgcgggtca cggcaccccg aacctctctc ctgctgtctt ggggggcctt ggcctgacc 60  
 gagacctggg ccggctccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc gagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca cacttgagc 360  
 acgatgtatg gctgcgacct ggggcgggac gggcgctcc tccgcgggca taaccagtta 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctcatgacac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggcctg ggtttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 961  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 961  
 gctcccaactc catgaggat ttcacacct ccgtgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacctggg gccggacggg cgcctcctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat gccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 962  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 962  
 atgcgggtca cggcaccccg aaccctctc ctgtgtctt ggggggccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccgcc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacct ggggccggac gggcgccctc tccgcgggca taaccagtta 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctcatgac ccagcgcaag tgggaggcgg cccgtgagcg ggagcagctg 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgcgga ccccccagg acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccacatccc catctgggc attgttctg ccttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgt cgctactgt atgttagga ggaagagtc aggtgga 1017

<210> 963  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 963  
 atgcgggtca cggcaccccg aaccctctc ctgtgtctt ggggggccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccgcc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacct ggggccggac gggcgccctc tccgcgggca taaccagtta 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctcatgac ccagcgcaag tgggaggcgg cccgtgtgac ggagcagctg 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgcgga ccccccagg acacacgtga cccaccacc catctctgac 660

catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccacatccc catctgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgt cgctactgt atgttagga ggaagagtc aggtgga 1017

<210> 964  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 964  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gccggccgc ggggagcccc 60  
 gcttcatgc agtgggtac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aagggccagg cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacctggg gccggacggg cgctctctcc ggggcataa ccagttagc tacgacggca 360  
 aggattacat gccttgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 965  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 965  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gccggccgc ggggagcccc 60  
 gcttcatgc agtgggtac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aagggccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc ggggcataa ccagtacgc tacgacggca 360  
 aggattacat gccttgaac gaggacctgc gctcctggac cgcgcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 966  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 966  
 atgcgggtca cggcacccc aacctctc ctgtgtctt gggggccct ggcctgacc 60  
 gagacctggg ccggtccca ctcatgagg tatttctaca ccgcatgtc ccggcccgc 120  
 cgcggggagc ccgcttcat cgcagtggc tacgtggacg acacgcagtt cgtgaggtc 180  
 gacagcgacg ccgcagtc gagagaggag ccgcggcgc cgtggataga gcaggagggg 240  
 ccggcgtatt gggaccgaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca cactggcag 360  
 acgatgatg gctgcgacct ggggcggac gggcgctcc tccgcgggca taaccagtta 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagtcctg gaccgcggc 480  
 gacaccgagg ctacagatc ccagcgcaag tgggaggcgg ccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600

gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccgt ggttctacc ctgggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacaga tgaggggctg ccgaagcccc tcaccctgag atgggagcca 900  
 tcttccagt ccaccatccc catctgggc attgttctg ccttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgt cgctactgt atgttagga ggaagagtc aggtgga 1017

<210> 967  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 967  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gtttcatgc agtgggtac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag aggggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacctggg gccggacggg cgcctcctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 968  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 968  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gtttcatgc agtgggtac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 969  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 969  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gtttcatgc agtgggtac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgagcgga gcagcgga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540



gcgcgg

546

&lt;210&gt; 970

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 970

gctccactc catgaggtat ttctacacct cgtgtcccg gcccgccgc ggggagcccc 60  
 gttcatctc agtgggtac gtggacgaca cgcagttcgt gaggttcgac agcgacgcc 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacctggg gccggacggg cgcctctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggtc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

&lt;210&gt; 971

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 971

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gttcatcgc agtgggtac gtggacgaca cgcagttcgt gaggttcgac agcgacgcc 120  
 cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac ttggcagatg atgtatggct 300  
 gcgacctggg gccggacggg cgcctctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggtc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagctgaga gctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

&lt;210&gt; 972

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 972

atcggggtca cggcaccccg aacctctc ctgctgtctt ggggggcct gccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccgcccggc 120  
 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acacgagtt cgtgaggtc 180  
 gacagcgacg ccgaggtcc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 aacctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacct ggggcgggac gggcgctcc tccggggca taaccagtta 420  
 gctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgggcg 480  
 gacaccgagg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgcggga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggcccgt ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cctccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900

tcttcccagt ccaccatccc catcgtgggc attgttctgt gcttggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 973  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 973  
atgcgggtca cggcaccg aacctctc ctgtctctt ggggggcct ggccctgacc 60  
gagacctggg cggctccca ctccatgagg tattttctaca cgccatgtc ccggcccggc 120  
cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
ccggagtatt gggaccgga cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
acgatgtatg gctgcgacct ggggcccggc gggcgctcc tccgcgggca taaccagtta 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
gacaccgagg ctcatatcac ccagcgcaag tgggagggcg cccgtgtggc ggagcagctg 540  
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgctgc agcgcgagg cccccaaag acacacgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa cttccagaa gtgggcagct gtggtgtgtc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
tcttcccagt ccaccatccc catcgtgggc attgttctgt gcttggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 974  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 974  
atgcgggtca cggcaccg aacctctc ctgtctctt ggggggcct ggccctgacc 60  
gagacctggg cggctccca ctccatgagg tattttctaca cgccatgtc ccggcccggc 120  
cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
ccggagtatt gggaccgga cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
aggatgtacg gctgcgacct ggggcccggc gggcgctcc tccgcgggca taaccagtta 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
gacaccgagg ctcatatcac ccagcgcaag tgggagggcg cccgtgtggc ggagcagctg 540  
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
gagacgctgc agcgcgagg cccccaaag acacacgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa cttccagaa gtgggcagct gtggtgtgtc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
tcttcccagt ccaccatccc catcgtgggc attgttctgt gcttggctgt cctagcagtt 960  
gtggtcatcg gagctgtggt cgctactgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 975  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 975

```

atgcggggtca cggcaccccg aacctcctc ctgctgctct ggggggccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc ccgcttcat cgagtgggc tacgtggagc acaccagtt cgtgaggttc 180
gacagcgacg ccgagagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg ccggtgaggc ggagcagtgg 540
agagcctacc tggagggcct gtgctggag tggctccgca gatacctgga gaacgggaag 600
gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca ccctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atggggagcca 900
tcttccagc ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

```

<210> 976  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 976
gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccgccgc ggggagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttagcc tacgacggca 360
aggattacat gcacctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 977  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 977
gctcccactc catgaggtat ttctacaccg ccatgtcccc gcccgccgc ggggagcccc 60
gcttcattgc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttagcc tacgacggca 360
aagattacat gcacctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 978  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 978

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag gagggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
gcgacgtggg gccggacggg cgcctcctcc gggggcataa ccagtacgcc tacgacggca 360
aagattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 979

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 979

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctac aaggcccagg cacagactga ccgagagaac ctgcgcaccg 240
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
gcgacctggg gccggacggg cgcctcctcc gggggcataa ccagttagcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 980

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 980

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accgggagac acagaagtac aagggccagg cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
gcgacctggg gccggacggg cgcctcctcc gggggcataa ccagttagcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 981

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 981

```

gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60
gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300

```

gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtccgc tacgacggca 360  
 aggtattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 982  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 982  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccc cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccc ggtctcacac cctccagagg atgtacggct 300  
 gcgacctggg gccggacggg cgctcctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggtattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 983  
 <211> 895  
 <212> DNA  
 <213> Homo sapiens

<400> 983  
 atgcgggtca cggcaccccg aacctcctc ctgctgctct ggggggcct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tattttaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgaggtc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggtatgtatg gctgcgacct ggggcccgcg gggcgccctc tcccggggca tgaccagttc 420  
 gcctacgacg gcaaggatta catgcctg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccgagg ctacagtcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgac agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca ccctgaggtg ctgggcccgt ggcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atggg 895

<210> 984  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 984  
 atgcgggtca cggcaccccg aacctcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tattttaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgaggtc 180  
 gacagcgacg ccgcgagtc gaggtggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggcagggga gacacggaac atgaaggcct ccgcgcagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360

gtgatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgcggcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc cabctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccaaagcccc tcacctgag atgggagcca 900  
 tcttccaat ccaccgtccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 985  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 985  
 gctccaactc catgaggtat ttctacaccg ccatgtcccc gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cgggcgccat gtagatagca ggagggggcg gagtattggg 180  
 acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccaggatg atgtatggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcatga ccagtctgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 986  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 986  
 atgggggtca cggcaccg aaccgtctc ctgctgctct ggggggcagt ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcgggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgcagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 gtgatgtatg gctgcgacgt ggggccggac gggcgccctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgcggcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagcgg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc cabctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccaaagcccc tcacctgag atgggagcca 900  
 tcttccaat ccaccgtccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 987  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 987

```

atgcgggtca cggcaccg aaccgtctc ctgctgctct ggggggcagt ggccctgacc 60
gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat cgagtgggc tacgtggacg acaccagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gaggtggcg cccggggcg catggataga gcaggagggg 240
ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgcagac ttaccgagag 300
aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360
gtgatgtatg gtcgcgacgt ggggcccggac gggcgctcc tccggggca taaccagtac 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccgcggcg 480
gacacggcgg ctcatgac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660
catgaggcca cctgaggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccaagcccc tcacctgag atgggagcca 900
tcttccaat ccaccgtcc catcgtggc attgttctg gcttggtgt cctagcagtt 960
gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagtc aggtgga 1017

```

&lt;210&gt; 988

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 988

```

gctccactc catgaggtat ttctacacc ccatgtccc gcccggccgc ggggagcccc 60
gcttcatcg agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120
cgagtccgag gatggcgccc cgggcgcat gtagagagca ggaggggccc gattattggg 180
acggggagac acggaacatg aaggcctcc cgagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccc ggtctcatat catccaggtg atgtatggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat gccttgaaac gaggacctga gctctggac cgcgcgggac acagcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgtgcagc 540
gcggggaccc ccaaagaca catgtgacc accacccat ctctgacct gaggccacc 600
tgaggtgctg ggccctgggc ttctacctg cggagatcac actgacctg cagcgggatg 660
gcgaggacca aactcaggac accgagctt tggagaccag accagcagga gatagaacct 720
tccagaatg ggacgtgtg gtggtgcct ctggagaaga gcagagatac acatgccatg 780
tgcagcatga ggggctgcca aagcccctca cctgagatg gg 822

```

&lt;210&gt; 989

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 989

```

gctccactc catgaggtat ttctacacc ccatgtccc gcccggccgc ggggagcccc 60
gcttcatcg agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120
cgagtccgag gatggcgccc cgggcgcat gtagagagca ggaggggccc gattattggg 180
acggggagac acggaacatg aaggcctcc cgagactta ccgagagaac ctgcggatcg 240
cgctccgcta ctacaaccag agcgaggccc ggtctcatat catccaggtg atgtatggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360
aggattacat gccttgaaac gaggacctga gctctggac cgcgcgggac acggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 990  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 990  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac ctgcggatcg 240  
 cgtccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctcctcc gcgggtataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 991  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 991  
 atcggggtca cggcaccccg aaccgtctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tattttaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggatggcg ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgcagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 gtgatgtatg gtcgcgacgt ggggcccggac gggcgctcc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacacggcgg ctacatcat ccagcgcaag tgggaggcgg ccggtgtggc ggagcagctg 540  
 agagcctacc tggaggccct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgggga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ctttcagaa gtgggcagct gtgggtgtgc cttctggaga agagcagaga 840  
 tacacatcc atgtacagaa tgaggggctg ccaaagcccc tcacctgag atgggagcca 900  
 tcttccaat ccaccgtcc catcgtggc attgtgtg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgtgctgtg atgttagga ggaagagctc aggtgga 1017

<210> 992  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 992  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
 acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac ctgcggatcg 240  
 cgtccgcta ctacaaccag agcgaggccg ggtctcacat catccagtg atgtatggct 300  
 gcgacgtggg gcccgacggg cgcctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546



<210> 993  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 993  
 gctcccaact catgaggtat ttctacaccg ccatgtcccc gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cggcgccat ggatagagca ggaggggccg gattattggg 180  
 acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac ctgcggatcg 240  
 cgctccccta ctacaaccag agcgaggccg ggtctcacat catccaggtg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtccgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 994  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 994  
 gctcccaact catgaggtat ttctacaccg ccatgtcccc gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gatggcgccc cggcgccat ggatagagca ggaggggccg gattattggg 180  
 acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccaggtg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtccgcc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 995  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 995  
 atgggggtca cggcgccccg aaccgtctc ctgtctctt ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg ttttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggtc 180  
 gacagcgacg ccgcagtcg gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgcagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggtatgtat gctgcgacct ggggcccgc gggcgctcc tcccgggga tgaccagtcc 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctctg gaccgcgcg 480  
 gacaccgcg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cactatgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct ttgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
 gtgtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 996  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 996  
 atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtcg gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgcagac ttaccgagag 300  
 aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 tggatgtatg gctgcgacct ggggcccagc gggcgctcc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgcgga cccccaaag acacacgtga ccaccaccc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 997  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 997  
 atgcgggtca cggcgccccg aaccgtcctc ctgctgctct ggggggcagt ggccctgacc 60  
 gagacctggg cgggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtcg gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggacgagga gacacggaac atgaaggcct ccgcgcagac ttaccgagag 300  
 aacctgcgga tcgcgctccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccagc gggcgctcc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgctgc agcgcgcgg 619

<210> 998  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 998  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gtttcatcg agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacccg 120  
 cgagtcgag gacggagccc cggcgccat gtagtagaca ggaggggccc gattattggg 180  
 acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac ctgcggatcg 240  
 cgtccgcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctcctcc cggggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagttg gaggcgccc gtgcggcgga gcagctgaga gcctacctgg 480  
 agggcagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 999  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 999  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gacggagccc cgggcgccat g gatagagca ggaggggccc gagtattggg 180  
 acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccc ggtctcacac cctccagtgg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctcc gcggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 1000  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 1000  
 gctcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gacggagccc cgggcgccat g gatagagca ggaggggccc gagtattggg 180  
 acggggagac acggaacatg aaggcctccg cgcagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccc ggtctcacac cctccagtgg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctcc gcggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgc ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 1001  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 1001  
 atgcgggtca cggcacccc aacctctc ctgtgtctt ggggggccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgttcat cgcagtggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccgga cacacagatc ttaagacca acacacagac ttaccgagag 300  
 aacctgcga tcgcctccg ctactacaac cagagcgagg ccgggtctca cacttgccag 360  
 acgatgtatg gctgcacct ggggcgggac gggcgcctcc tccgcgggca taaccagtta 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccgagg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc aggcgcggga cccccaaag acacacgtga ccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatcc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 1002  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 1002  
 atgctggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct ggccctgacc 60  
 gagacctggg ccggtcccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagttc 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcagctg 540  
 agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa ccttcagaa gtgggcagct gtggtgtgct cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagat ccaccgtcc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc aggtgga 1017

<210> 1003  
 <211> 541  
 <212> DNA  
 <213> Homo sapiens

<400> 1003  
 gctccactc catgaggat ttctacacct ccgtgtcccg gcccgggcgc ggggagcccc 60  
 gcttcatctc agtgggtac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagg agaggagccg cggcgccgt gatatagca ggaggggccg gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggt 300  
 gcgacgtggg gccggacggg gcctcctcc gcggcataa ccagttcgc tacgacggca 360  
 aggattacat gcctgaac gaggacctga gtcctggac cgcggcgac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgtgcagc 540  
 g 541

<210> 1004  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 1004  
 atgctggtca tggcgccccg aaccgtcctc ctgctgctct cggcggccct ggccctgacc 60  
 gagacctggg ccggtcccca ctccatgagg tatttctaca cctccgtgtc ccggcccggc 120  
 cgcggggagc cccgcttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtcc aagaggggag ccgcggggcg cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagccc aggcacaggc tgaccgagt 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagttc 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcagctg 540  
 agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600

gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagacagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 tgggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagttc aggtgga 1017

<210> 1005  
 <211> 1020  
 <212> DNA  
 <213> Homo sapiens

<400> 1005  
 atgttggtca tggcgccccg aaccgtctc ctgtgtctt cggcggccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttccaca cctccgtgtc ccggcctggc 120  
 cgcgggggagc cccgttcat caccgtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tgcaaggcca aggcacagac tgaccgagtg 300  
 ggctgcgga acctgcgagg ctactacaac cagagcgagg acgggtctca cacttggcag 360  
 acgatgtatg gctgcgacat ggggcgggac gggcgctcc tccgcggtta taaccagttc 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcctg gaccgcgcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgagggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agaacagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg caggagccct gcacctgag atggaagcca 900  
 tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cttgtggtc 960  
 accgtagctg tggcgtctgt ggtcgtctgt gtgatgtgta ggaggaagag ctcaggtgga 1020

<210> 1006  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 1006  
 atgcgggtca cggcgccccg aaccgtctc ctgtgtctt ggggggcagt ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgccatgtc ccggcccggc 120  
 cgcgggggagc cccgttcat tgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac tgaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacgt ggggcgggac gggcgctcc tccgcggtta taaccagtac 420  
 gcctacgacg gcaaagatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 tgggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 1007  
 <211> 1017

<212> DNA  
<213> Homo sapiens

<400> 1007

```

atgcgggtca cggcgcccg aaccgtctc ctgtctctt ggggggcagt ggcctgacc    60
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccgcc    120
cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc    180
gacagcgacg ccgcgagtc gaggacggag ccccgggcgc catggataga gcaggagggg    240
ccgagtgatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag    300
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca cacttggcag    360
acgatgtatg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagtac    420
gcctacgacg gcaaagatta catgcctctg aacgaggacc tgagctctg gaccgcggcg    480
gacaccggcg ctcatatcag ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg    540
agagcctacc tggagggcct gtgcgtggag tggctcgca gacacctgga gaacgggaag    600
gagacgtgac agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac    660
catgaggcca cctgaggtg ctgggcctg ggctctacc ctgcggagat cacactgacc    720
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca    780
ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga    840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca    900
tcttccagc ccaccatccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt    960
gtggtcatcg gagctgtgtg cgtactgtg atgtgtagga ggaagagtc aggtgga    1017

```

<210> 1008  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1008

```

gtctccactc catgaggtat ttctacaccg ccatgtccc gcccggccgc ggggagcccc    60
gtctcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg    120
cgagtcgag gacggagccc cgggcgcat ggatagagca ggaggggccc gagtattggg    180
accggaacac acagatctc aagaccaaca cacagactta ccgagagagc ctgcggaacc    240
tgccgggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct    300
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca    360
aagattacat cgccctgaac gaggacctga gctctggac cgcgccggac acccgggctc    420
agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg    480
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc    540
gcgcgg                                     546

```

<210> 1009  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 1009

```

gtctccactc catgaggtat ttctacaccg ccatgtccc gcccggccgc ggggagcccc    60
gtctcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg    120
cgagtcgag gacggagccc cgggcgcat ggatagagca ggaggggccc gagtattggg    180
accggaacac acagatctg aagaccaaca cacagactga ccgagagagc ctgcggaacc    240
tgccgggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct    300
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca    360
aagattacat cgccctgaac gaggacctga gctctggac cgcgccggac acccgggctc    420
agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg    480
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc    540
gcgcgg                                     546

```

<210> 1010  
<211> 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 1010gtcccaactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc ggggagcccc 60  
 gttcatcg agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg gcctcctcc cggggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggtc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcggaccc cccaaagaca cagtgaccc accaccccg ctctgacct gagggcaccc 600  
 tgaggtgctg gccctgggc ttctaccctg cggagatcac actgacctgg cagcgggatg 660  
 gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720  
 tccagaagtg ggcagctgtg gtgtgcctt ctggagaaga gcagagatac acatgccatg 780  
 tacagcatga ggggctgccg aagccctca ccctgagatg gg 822

&lt;210&gt; 1011

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 1011  
 gtcccaactc catgaggtat ttctacaccg ccatgtcccg gcccggccgc ggggagcccc 60  
 gttcatcg agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
 accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg gcctcctcc cggggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgcctgaac gaggacctga gtcctggac cgcggcggac accgcggtc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgagcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

&lt;210&gt; 1012

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 1012  
 atgttgtca tggcgcccc aaccgtctc ctgtgtctt ggggggcagt ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttttaca cctccgtgc cggccccgc 120  
 cgcggggagc ccgcttcat ctcatgggc tacgtggacg acaccagtt cgtgaggtt 180  
 gacagcgacg ccgagagtc gagagaggag ccgccccgc cgtggataga gcaggagggg 240  
 ccgaggtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgagg ctactaacac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgact ggggcgggac ggggcctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcctcctg gaccgcgag 480  
 gacacggcgg ctcatctc ccagcgcaag ttggaggcgg ccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gacaagctgg agcgcgtga ccccccagg acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcctg ggtttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtggacagct gtgtgtgtg cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcgtggc attgttctg gcctggctg ctagcagtt 960  
 gtgtcatcg gagctgtgt cgtgtgtg atgtgttaga ggaagagttc tgggtga 1017

<210> 1013  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 1013  
 gctcccactc catgaggtat ttctacaccg ctatgtcccg gcccgccgc ggggagcccc 60  
 gcttcatctc agtgggtac gtggacgaca cgcagttcgt gaggttcgac agcgacgcgc 120  
 cgagtccgag agaggagccg cgggcgcctt ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtttggct 300  
 gcgacctggg gcccgacggg cgcctcctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat gccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 aggacctgtg cgtggagtcg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 1014  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 1014  
 atgcgggtca cggcaccgc aacctctc ctgctgctct ggggggcct gccctgacc 60  
 gagacctggg ctggtccca ctccatgagg tatttctaca ccgtatgtc ccggcccgc 120  
 cgcggggagc cccgttcat ctgagtggtc tacgtggac acacgagtt cgtgaggtc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtttg gctgcgacct ggggcccgc gggcgctcc tccgcgggca taaccagtta 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccgcgg ctcatatc ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
 catgaggcca ccctgaggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttccagaa gtgggcagct gtggtggtc cttctggaga agagcagaga 840  
 tacacatgcc atgtacgca tgaggggctg ccgaagccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatcc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt tgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 1015  
 <211> 620  
 <212> DNA  
 <213> Homo sapiens

<400> 1015  
 atgcgggtca cggcgcggc aacctctc ctgctgctct ggggggcagt gccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccgc 120  
 cgcggggagc cccgttcat ctgagtggtc tacgtggac acaccagtt cgtgaggtc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtacg gctgcgacgt ggggcccgc gggcgctcc tccgcgggta tgaccaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctctg gaccgcggcg 480  
 gacaccgcgg ctcatatc ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcct gtgcgtggag tcgctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcggb 620



## SEQUENCE LISTING C

&lt;110&gt; CANON KABUSHIKI KAISHA

&lt;120&gt; Probe set and method for identifying HLA allele

&lt;130&gt; G10003828C

&lt;150&gt; JP2003-430556

&lt;151&gt; 2003-12-25

&lt;160&gt; 345

&lt;170&gt; PatentIn version 3.2

&lt;210&gt; 1

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 1

```

atgcgggtca tggcgccccg aacctcattc ctgctgctct cgggagccct ggcctgacc      60
gagacctggg cctgctccca ctccatgaag tatttcttca catccgtgtc cggcctggc      120
cgcgagagc cccgcttcat ctgagtgggc tacgtggacg acacgcagtt cgtgcggttc      180
gacagcgacg ccgcgagtc gagagggggag ccgcggggcg cgtgggtgga gcaggagggg      240
ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac tgaccgagtg      300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag      360
tggatgtgtg gctgcgacct ggggccccgac gggcgccctc tccgcgggta tgaccagtac      420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgag      480
gacaccgagg ctcatgacac ccagcgcaag tgggagggcg cccgtgaggc ggagcagcgg      540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag      600
gagacgtgc agcgcgcgga acaccaaag acacacgtga ccacatcc cgtctctgac      660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc      720
tggcagtggg atggggagga ccaaactcag gacaccgagc ttgtggagac caggccagca      780
ggagatgga cctccagaa gtgggcagct gtgatgggac ctctggaga agagcagaga      840
tacagtgcc atgtcgagca cgaggggctg ccggagcccc tcacctgag atgggagccg      900
tcttccagc ccacatccc catcgtgggc atcgttctg gcttggtgt cctggtgtc      960
ctagctgtc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag ctgagtgga      1020
aaaggaggga gctgcttca ggctgcgtcc agcaacagtg ccagggtc tgatgagtct      1080
ctcatgctt gtaa

```

&lt;210&gt; 2

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 2

```

atgcgggtca tggcgccccg aacctcattc ctgctgctct cgggagccct ggcctgacc      60
gagacctggg cctgctccca ctccatgaag tatttcttca catccgtgtc cggcctggc      120
cgcgagagc cccgcttcat ctgagtgggc tacgtggacg acacgcagtt cgtgcggttc      180
gacagcgacg ccgcgagtc gagagggggag ccgcggggcg cgtgggtgga gcaggagggg      240
ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac tgaccgagtg      300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag      360
tggatgtgtg gctgcgacct ggggccccgac gggcgccctc tccgcgggta taaccagttc      420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgag      480
gacaccgagg ctcatgacac ccagcgcaag tgggagggcg cccgtgaggc ggagcagcgg      540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag      600
gagacgtgc agcgcgcgga acaccaaag acacacgtga ccacatcc cgtctctgac      660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc      720

```

```

tggcagtggg atggggagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780
ggagatggaa ctttcagaa gtgggcagct gtgatggtgc cttctggaga agagcagaga 840
tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagccg 900
tcttccagc ccaccatccc catcgtgggc atcgttctg gcctggctgt cctggctgtc 960
ctagctgtcc taggagctgt ggtggctgt gtgatgtga ggaggaagag ctcaggtgga 1020
aaaggaggga gctgctctca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080
ctcatcgctt gtaa 1094

```

<210> 3  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

```

<400> 3
atgcgggtca tggcgcccc aacctcacc ctgctctct cgggagccct ggcctgacc 60
gagacctggg cctgtccca ctccatgaag tatttctca catccgtgc ccggcctggc 120
cgcgagagc ccgcttcat ctactgggc tacgtggac acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagtc gagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240
ccggagtatt gggaccggga gacacagaag tacaagccc aggcacagac tgaccagtg 300
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360
tggatgtgtg gctgcgacct ggggcccgc gggcgctcc tccgcgggta tgaccagtc 420
gcctacgacg gcaaggatta catgcacct aacgaggacc tgcgctctg gaccgtgcg 480
gacacggcgg ctacatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagtg 540
agagcctacc tggagggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600
gagacgtgc agcgcgcgga acaccaaag acacagtga cccaccatcc cgtctctgac 660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780
ggagatggaa ctttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcacctgag atgggagcca 900
tcttccagc ccaccatccc catcgtgggc atcgttctg gcctggctgt cctggctgtc 960
ctagctgtcc taggagctgt gatgctgtt gtgatgtga ggaggaagag ctcaggtgga 1020
aaaggaggga gctgctctca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080
ctcatcgctt gtaa 1094

```

<210> 4  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

```

<400> 4
gctccactc catgaagtat ttcttcacat cgtgtcccg gcctggccgc ggagagcccc 60
gcttcatctc agtgggttac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagtcgagc aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtctggct 300
gcgacctggg gcccacggg gcctctctcc gcgggtatga ccagtacgc tacgacggca 360
aggattacat gcctctgaac gaggacctgc gctcctggac cgcgcggac accgcggctc 420
agatcaccca gcgaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

<210> 5  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 5

```

gctccactc catgaagtat ttcttcacat ccgtgtccc gcttgccgc ggagagcccc 60
gcttcactc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240
tgcgcggtcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg atgtgtggct 300
gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 6  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

```

<400> 6
gctccactc catgaagtat ttcttcacat ccgtgtccc gcttgccgc ggagagcccc 60
gcttcactc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240
tgcgcggtcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg atgtgtggct 300
gcgacctggg gcccgacggg cgctcctcc gcaggtatga ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgagggcga gcagcggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 7  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

```

<400> 7
gctccactc catgaagtat ttcttcacat ccgtgtccc gcttgccgc ggagagcccc 60
gcttcactc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240
tgcgcggtcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg atgtgtggct 300
gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcggcct gtgagggcga gcagcggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 8  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

```

<400> 8
gctccactc catgaagtat ttcttcacat ccgtgtccc gcttgccgc ggagagcccc 60
gcttcactc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240
tgcgcggtcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg atgtgtggct 300
gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtacgcc tacgacggca 360

```

aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac accgaggctc 420  
 agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 9  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 9  
 atgcggttca tggcgccccg aacctcctc ctgctgctt cgaggacct ggccctgacc 60  
 gagacctggg cctgctcca ctccatgagg tatttctaca ccgtgtgtc ccggcccagc 120  
 cgcggagagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac tgaccgagtg 300  
 aacctgcgga aactacgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacct ggggcccagc gggcgctcc tccggggta tgaccagtcc 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcctg gaccgcccgc 480  
 gacacagcgg ctcatatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagtgg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga acaccaaag acacacgtga cccacctcc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggacctg ggcttctacc ctacggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagcca 900  
 tcttcccagc ccacctccc catcgtgggc atcgttctg gctggtgtg cctggtgtc 960  
 ctactgtcc taggagctgt ggtggtgtt gtgatgtga ggaggaagag ctacaggtga 1020  
 aaaggaggga gctgcttca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080  
 ctcatcgtt gtaa 1094

<210> 10  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 10  
 atgcggttca tggcgccccg aacctcctc ctgctgctt cgaggacct ggccctgacc 60  
 gagacctggg cctgctcca ctccatgagg tatttctaca ccgtgtgtc ccggcccagc 120  
 cgcggagagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac tgaccgagtg 300  
 aacctgcgga aactgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacct ggggcccagc gggcgctcc tccggggta tgaccagtcc 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcctg gaccgcccgc 480  
 gacacagcgg ctcatatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagtgg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga acaccaaag acacacgtga cccacctcc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggacctg ggcttctacc ctacggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagcca 900  
 tcttcccagc ccacctccc catcgtgggc atcgttctg gctggtgtg cctggtgtc 960  
 ctactgtcc taggagctgt ggtggtgtt gtgatgtga ggaggaagag ctacaggtga 1020  
 aaaggaggga gctgcttca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080  
 ctcatcgtt gtaa 1094

<210> 11  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 11  
 gctcccactc catgaggtat ttctacaccg ctgtgtcccg gccagccgc ggagagcccc 60  
 acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtccgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctctggac cgccgggac acagcggtc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 12  
 <211> 1015  
 <212> DNA  
 <213> human leukocyte

<400> 12  
 atgcgggtca tggcgccccg aacctctc ctgctgctct cgggagccct ggccctgacc 60  
 gagactggg cctgtccca ctccatgagg tatttctaca ccgtgtgtc ccggccagc 120  
 cgcggagag ccacttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac tgaccgagt 300  
 aacctgcgga aactgcgagg ctactacaac cagagcgagg ccgggtctca cacctccag 360  
 aggatgtacg gctgcgacct ggggcccgc gggcgctcc tccgcgggta tgaccagtcc 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtctctg gaccgccgcg 480  
 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagtgg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgga acaccaaag acacacgtga ccacatcc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa cctccagaa gtgggcagct gtggtgtgtc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc atcgtgtgtg gcttggtgt cctggctgtc 960  
 ctactgtcc taggagctgt ggtggtgtt gtgatgtga ggaggaagag ctacg 1015

<210> 13  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 13  
 gctcccactc catgaggtat ttctacaccg ctgtgtcccg gccagccgc ggagagcccc 60  
 acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtccgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctctggac cgccgggac acggcggtc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 14  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 14  
 gctccactc catgaggtat ttctacaccg ctgtgtcccg gccagccgc ggagagcccc 60  
 acttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt gggtggagca ggaggggccg gaggattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgccgaggac acagcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagtgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 15  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 15  
 gctccactc catgaggtgt ttctacaccg ctgtgtcccg gccagccgc ggagagcccc 60  
 acttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt gggtggagca ggaggggccg gaggattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgccgaggac acagcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 16  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 16  
 gctccactc catgaggtat ttctacaccg ctgtgtcccg gccagccgc ggagagcccc 60  
 acttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt gggtggagca ggaggggccg gaggattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgccgaggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 17  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

&lt;400&gt; 17

```

gctccactc catgaggtat ttctacaccg ctgtgtcccg gccagccgc ggagagcccc 60
acttcatcgc agtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgccg 120
cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccg gagtattggg 180
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaaac 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagttagcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac cgcccgccgac acggcggtc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

&lt;210&gt; 18

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 18

```

atgcgggtca tggcgccccg aacctcacc ctgtgtctct cgggagccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tattttctaca ccgtgtgtc ccggcccgcc 120
cgcggggagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga gcaggagggg 240
ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac tgaccgagtg 300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcctccag 360
aggatgtatg gctgcgacgt ggggccccgac gggcgccctc tccgcgggta tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgtcctg gaccgccgag 480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgaa gaatgggaag 600
gagacgctgc agcgcgcgga acaccaaag acacacgtga cccaccatcc cgtctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc 720
tggcagtggg atggggagga ccaaactcag gacactgagc ttgtggagac caggccagca 780
ggagatggaa cttccagaa gtgggcagct gtggtgggtc cttctggaga agagcagaga 840
tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagcca 900
tcttccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt cctggctgtc 960
ctagctgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag ctcagtgga 1020
aaaggaggga gctgctctca ggctgcgtcc agcaacagtg ccaggggctc tgatgagtct 1080
ctcatcgctt gtaa 1094

```

&lt;210&gt; 19

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 19

```

atgcgggtca tggcgccccg aacctcacc ctgtgtctct cgggagccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tattttctaca ccgtgtgtc ccggcccgcc 120
cgcggggagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagtcc gagaggggag ccgcggggcg cgtgggtgga gcaggagggg 240
ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac tgaccgagtg 300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcctccag 360
aggatgtatg gctgcgacgt ggggccccgac gggcgccctc tccgcgggta tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggatc tgcgtcctg gaccgccgag 480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgaa gaatgggaag 600
gagacgctgc agcgcgcgga acaccaaag acacacgtga cccaccatcc cgtctctgac 660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc 720
tggcagtggg atggggagga ccaaactcag gacactgagc ttgtggagac caggccagca 780
ggagatggaa cttccagaa gtgggcagct gtggtgggtc cttctggaga agagcagaga 840

```

```

tacacgtgcc atgtgcagca cgaggggctg cgggagcccc tcacctgag atgggagccg 900
tcttccagc ccaccatccc catcgtgggc atcgttgctg gcttggtgt cctggctgtc 960
ctagctgtcc taggagctgt ggtggctgt gtgatgtgta ggaggaagag ctcagggtga 1020
aaaggaggga gctgcttca ggtgcgtcc agcaacagtg cccagggtc tgatgagtct 1080
ctcatcgctt gtaa 1094

```

<210> 20  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

```

<400> 20
atgcgggtca tggcgcccc aacctcacc ctgctgctct cgggagccct ggcctgacc 60
gagacctggg cgggtccca ctccatgagg tattttctaca ccgtgtgtc cggccccgc 120
cgcgggggag cccacttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagtc gagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240
ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac tgaccgagt 300
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccaggtctca catcatccag 360
aggatgtatg gctgcgacgt ggggccccgac gggcgctcc tccggggta tgaccagtac 420
gcctacgacg gcaaggatta catgccttg aacgaggatc tgcgtcctg gaccgccgcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgaa gaatgggaag 600
gagacgtgc agcgcgcgga acaccaaag acacacgtga cccaccatcc cgtctctgac 660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagtggg atggggagga ccaaactcag gacactgagc ttgtggagac caggccagca 780
ggagatggaa ctttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacgtgcc atgtgcagca cgaggggctg cgggagcccc tcacctgag atgggagccg 900
tcttccagc ccaccatccc catcgtgggc atcgttgctg gcttggtgt cctggctgtc 960
ctagctgtcc taggagctgt ggtggctgt gtgatgtgta ggaggaagag ctcagggtga 1020
aaaggaggga gctgcttca ggtgcgtcc agcaacagtg cccagggtc tgatgagtct 1080
ctcatcgctt gtaa 1094

```

<210> 21  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

```

<400> 21
atgcgggtca tggcgcccc aacctcacc ctgctgctct cgggagccct ggcctgacc 60
gagacctggg cgggtccca ctccatgagg tattttctaca ccgtgtgtc cggccccgc 120
cgcgggggag cccacttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagtc gagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240
ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac tgaccgagt 300
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccaggtctca catcatccag 360
aggatgtatg gctgcgacgt ggggccccgac gggcgctcc tccggggta tgaccagtac 420
gcctacgacg gcaaggatta catgccttg aacgaggatc tgcgtcctg gaccgccgcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgaa gaatgggaag 600
gagacgtgc agcgcgcgga acaccaaag acacacgtga cccaccatcc cgtctctgac 660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagtggg atggggagga ccaaactcag gacactgagc ttgtggagac caggccagca 780
ggagatggaa ctttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacgtgcc atgtgcagca cgaggggctg cgggagcccc tcacctgag atgggagccg 900
tcttccagc ccaccatccc catcgtgggc atcgttgctg gcttggtgt cctggctgtc 960
ctagctgtcc taggagctgt ggtggctgt gtgatgtgta ggaggaagag ctcagggtga 1020
aaaggaggga gctgcttca ggtgcgtcc agcaacagtg cccagggtc tgatgagtct 1080
ctcatcgctt gtaa 1094

```



<210> 22  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 22  
 gctccactc catgaggtat ttctacaccg ctgtgtcccg gcccgccgc ggggagcccc 60  
 acttcatcgc agtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccg cggcgccgt gggtaggaca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggcca ggtctcacat catccagagg atgtatggct 300  
 gcgacgtggg acccgacggg cgctctctcc ggggtatga ccagtacgc tacgacggca 360  
 aggattacat cgcctgaac gaggatctgc gctcctggac gcccgccgac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgagat acctgaagaa tgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 23  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 23  
 atgcgggtca tggcgccccg aacctcacc ctgtgtctct cgggagccct ggccctgacc 60  
 gagacctggg ccggtccca ctccatgagg tttttctaca ccgtgtgtc ccggcccgcc 120  
 cgcggggagc cccacttcat cgagtgaggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgagagtc gagaggggag ccgccccgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagccc aggcacagac tgaccgagt 300  
 agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcagct ggggcccgc gggcgctcc tcccgggta tgaccgtac 420  
 gcctacgacg gcaaggatta catgccctg aacgaggatc tgcgtctctg gaccgccgcg 480  
 gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgaa gaatgggaag 600  
 gagacgtgc agcgccgga acacccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagtggg atggggagga ccaaactcag gacactgagc ttgtggagac caggccagca 780  
 ggagatggaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcaga cgaggggctg ccggagcccc tcacctgag atgggagccg 900  
 tcttccagc ccaccatcc catcgtgggc atcgttctg gctggctgt cctggctgtc 960  
 ctagtgtcc taggagctgt ggtggctgt gtgatgtga ggaggaagag ctacgttga 1020  
 aaaggaggga gctgcttca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080  
 ctcatcgctt gtaa 1094

<210> 24  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 24  
 gctccactc catgaggtat ttctacaccg ctgtgtcccg gcccgccgc ggggagcccc 60  
 acttcatcgc agtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccg cggcgccgt gggtaggaca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gcccgacggg cgctctctcc ggggtatga ccagtacgc tacgacggca 360  
 aggattacat cgcctgaac gaggatctgc gctcctggac gcccgccgac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 25  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 25  
gctccactc catgaggtat ttctacaccg ctgtgtcccg gcccgccgc ggggagcccc 60  
acttcatgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gcccgacggg cgcctcctcc gcgggtatga ccagtacgcc tacgacggca 360  
aggattacat cgcctgaac gaggatctgc gctcctggac gcccgccgac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 26  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 26  
gctccactc catgaggtat ttctacaccg ctgtgtcccg gcccgccgc ggggagcccc 60  
acttcatgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
gcgacgtggg gcccgacggg cgcctcctcc gcgggtatgt ccagtacgcc tacgacggca 360  
aggattacat cgcctgaac gaggatctgc gctcctggac gcccgccgac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 27  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 27  
gctccactc catgaggtat ttctacaccg ctgtgtcccg gcccgccgc ggggagcccc 60  
acttcatgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
gcgacgtggg gcccgacggg cgcctcctcc gcgggtatga ccagtacgcc tacgacggca 360  
aggattacat cgcctgaac gaggatctgc gctcctggac gcccgccgac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 28  
<211> 1015

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 28

```

atgcgggtca tggcgccccg aacctcattc ctgtgtctct cgggagccct ggccctgacc      60
gagacctggg ccggtcccca ctccatgagg tatttttaca ccgtgtgtc ccggcccggc      120
cgccggggagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc      180
gacagcgacg ccgcgagtcc gagagggggag ccgcggggcg cgtgggtgga gcaggagggg      240
ccggagtatt gggaccggga gacacagaac tacaagcgc aggcacagac tgaccgagtg      300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca catcatccag      360
aggatgtatg gctgcgacgt ggggcccgcg ggcgcctcc tccgcgggta tgaccagtac      420
gcctacgacg gcaaggatta catgccctg aacgaggatc tgcgtcctg gaccgccg      480
gacacggcgg ctacgatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg      540
agagcctacc tggaggccct gtgcgtggag tggctccgca gatactgaa gaatgggaag      600
gagacgtgcg agcgcgcgga acacccaaag acacacgtga cccaccatcc cgtctctgac      660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc      720
tggcagtggg atggggagga ccaactcag gacactgagc ttgtggagac caggccagca      780
ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga      840
tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagccg      900
tcttccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt cctggctgtc      960
ctagctgtcc taggagctgt ggtggctgtt gtgatgtga ggaggaagag ctacg      1015

```

&lt;210&gt; 29

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 29

```

gtctccactc catgaggtat ttctacaccg ctgtgtcccg gcccgccgc ggggagcccc      60
acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcagcgcg      120
cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg      180
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc      240
tgcgcggcta ctacaaccag agcagggccg ggtctcatat catccagagg atgtatggct      300
gcgacctggg gcccgacggg gcctcctcc gcgggtatga ccagtacgcc tacgacggca      360
aggattacat cgcctgaac gaggatctgc gctcctggac gcgcgcggac acggcggctc      420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg      480
agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag acgctgcagc      540
gcgcggg                                         546

```

&lt;210&gt; 30

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 30

```

gtctccactc catgaggtat ttctacaccg ctgtgtcccg gcccgccgc ggggagcccc      60
acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcagcgcg      120
cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg      180
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaaac      240
tgcgcggcta ctacaaccag agcagggccg ggtctcatat catccagagg atgtatggct      300
gcgacgtggg gcccgacggg gcctcctcc gcgggtatga ccagtacgcc tacgacggca      360
aggattacat cgcctgaac gaggatctgc gctcctggac gcgcgcggac acggcggctc      420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg      480
agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag acgctgcagc      540
gcgcggg                                         546

```

&lt;210&gt; 31

<211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 31  
 gctccactc catgaggtat ttctacaccg ctgtgtcccg gcccgccgc ggagagcccc 60  
 gcttcactc agtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccg cggcgccgt ggggtggagca ggaggggccg gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggcca ggtctcacat catccagagg atgtatggct 300  
 gcgacgtggg gcccgacggg cgctctctcc gcgggtatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggatctgc gctctggac cgcgcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 32  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 32  
 gctccactc catgaggtat ttctacaccg ctgtgtcccg gcccgccgc ggggagcccc 60  
 acttcactc agtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccg cggcgccgt ggggtggagca ggaggggccg gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggcca ggtctcacat catccagagg atgtatggct 300  
 gcgacgtggg gcccgacggg cgctctctcc gcgggtatga ccagttagcc tacgacggca 360  
 aggattacat cgccctgaac gaggatctgc gctctggac cgcgcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 33  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 33  
 atcggggtca tggcgccccg aacctcactc ctgtgtctct cgggagccct ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tattttaca ccgtgtgtc ccggcccggc 120  
 cgcggggagc cccacttcac cgagtgaggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc gagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac tgaccgagt 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccaggtctca caccctccag 360  
 aggatgtatg gctgcgacgt ggggcccgc gggcgctcc tccgcgggta tgaccgtac 420  
 gcctacgacg gcaaggatta catgccctg aacgaggatc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggaggcct gtgcgtggag tggctccgca gatactgaa gaatgggaag 600  
 gagacgtgc agcgcgcgga acacccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggtttctacc ctgcggagat cacttgacc 720  
 tggcagtggg atggggagga ccaaactcag gacactgagc ttgtggagac caggccagca 780  
 ggagatggaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagccg 900  
 tcttccagc ccaccatccc catcgtgggc atcgttctg gctggctgt cctggctgtc 960  
 ctagtgtcc taggagctgt ggtggctgtt gtatgtgtga ggaggaagag ctacgtgga 1020  
 aaaggaggga gctgcttca ggctgcgtcc agcaacagtg cccagggtc tgatgagtct 1080  
 ctcatgcct gtaa 1094

<210> 34  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 34  
 gctccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc ggggagcccc 60  
 acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccg gattattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacgtggg gcccgacggg cgcctcctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgcggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 35  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 35  
 gctccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc ggggagcccc 60  
 acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccg gattattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacat cctccagagg atgtatggct 300  
 gcgacgtggg gcccgacggg cgcctcctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggatctgc gctcctggac cgcgcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 36  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 36  
 gctccactc catgaggtat ttctacaccg ctgtgtcccg gcccggccgc ggggagcccc 60  
 acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccg gattattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat cctccagagg atgtatggct 300  
 gcgacgtggg gcccgacggg cgcctcctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggatctgc gctcctggac cgcgcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 37  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 37

```

atgcggggtca tggcgccccg aacctcattc ctgctgtctt cgggagccct ggccttgacc    60
gagacctggg ccggctccca ctccatgagg tatttttcca catccgtgtc ctggcccggc    120
cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc    180
gacagcgacg ccgcgagtcc aagaggggag ccgcgggagc cgtgggtgga gcaggagggg    240
ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc tgaccgagtg    300
aacctgcgga aactgcgagg ctactacaac cagagcgagg acgggtctca caccctccag    360
aggatgtttg gctgcgacct ggggcccggc gggcgctcc tccgcgggta taaccagttc    420
gcctacgacg gcaaggatta catgccttg aacgaggatc tgcgtcctg gaccgccg    480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagcgg    540
agagcctacc tggaggggcag gtgcgtggag tggctccgca gatactgga gaacgggaag    600
gagacgtctg agcgcgcgga acaccaaag acacacgtga cccacctcc cgtctctgac    660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc    720
tggcagtggg atggggagga ccaaactcag gacaccgagc ttgtggagac caggccagca    780
ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacgtgcc atgttcagca cgaggggctg ccggagcccc tcacctgag atggaagccg    900
tcttcccagc ccacctccc catcgtgggc atcgttctg gcttggtgt cctggctgtc    960
ctagctgtcc taggagctat ggtggtgtt gtgatgtga ggaggaagag ctcaggtgga    1020
aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggtc tgatgagtct    1080
ctcatcgctt gtaa                                     1094

```

<210> 38  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

```

<400> 38
gctcccactc catgaggtat ttctccatc cgtgtctctg gcccgccgc ggggagcccc    60
gcttcatcgc agtgggctac gtggacgaca cacagttcgt gcggttcgac agcgacgccg    120
cgagtccaag aggggagccg cgggagccgt ggggtggagca ggagggggccg gagtattggg    180
accgggagac acagaagtac aagcgccagg cacaggtctga ccgagtgaac ctgcggaaac    240
tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg atgtttggct    300
gcgacctggg gccggacggg cgctctctcc gcggtataa ccagttcgcc tacgacggca    360
aggattacat cgcctgaac gaggatctgc gctctggac cgccgggac acggcggtc    420
agatcaccca gcgcaagtgg gaggcggccc gtgagcgga gcagcggaga gctacctgg    480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc    540
gcgcgg                                     546

```

<210> 39  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

```

<400> 39
atcggggtca tggcgccccg aacctcattc ctgctgtctt cgggagccct ggccttgacc    60
gagacctggg ccggctccca ctccatgagg tatttttaca ccgctgtgtc ccggcccagc    120
cgcgggagac ccacttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc    180
gacagcgacg ccgcgagtcc aagaggggag ccgcgggagc cgtgggtgga gcaggagggg    240
ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc tgaccgagtg    300
aacctgcgga aactgcgagg ctactacaac cagagcgagg acgggtctca caccctccag    360
aggatgtttg gctgcgacct ggggcccggc gggcgctcc tccgcgggta taaccagttc    420
gcctacgacg gcaaggatta catgccttg aacgaggatc tgcgtcctg gaccgccg    480
gacacggcgg ctcatatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagcgg    540
agagcctacc tggaggggcag gtgcgtggag tggctccgca gatactgga gaacgggaag    600
gagacgtctg agcgcgcgga acaccaaag acacacgtga cccacctcc cgtctctgac    660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc    720
tggcagtggg atggggagga ccaaactcag gacaccgagc ttgtggagac caggccagca    780
ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacgtgcc atgttcagca cgaggggctg ccggagcccc tcacctgag atggaagccg    900

```

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt cctggctgtc 960  
 ctagctgtcc taggagctgt ggtggctgt gtgatgtgta ggaggaagag ctcaggtgga 1020  
 aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggtc tgatgagtct 1080  
 ctcatcgtt gtaa 1094

<210> 40  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 40  
 gctcccactc catgaggtat ttctccacat ccgtgtcctg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggagccgt ggttgagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg atgtttggct 300  
 gcgacctggg gccggacggg cgctcctcc gcgggtataa ccagttcgc tacgacggca 360  
 aggattacat cgccctgaac gaggatctgc gctcctggac cgccgaggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 41  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 41  
 gctcccactc catgaggtat ttctccacat ccgtgtcctg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac ctggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggagccgt ggttgagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg atgtttggct 300  
 gcgacctggg gccggacggg cgctcctcc gcgggtataa ccagttcgc tacgacggca 360  
 aggattacat cgccctgaac gaggatctgc gctcctggac cgccgaggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggggccc gtgaggcgga gcagcgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 42  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 42  
 gctcccactc catgaggtat ttctacaccg ctgtgtccc gccagccgc ggagagcccc 60  
 acttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt ggttgagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg atgtttggct 300  
 gcgacctggg gccggacggg cgctcctcc gcgggtataa ccagttcgc tacgacggca 360  
 aggattacat cgccctgaac gaggatctgc gctcctggac cgccgaggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 43  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 43  
 gctcccactc catgaggtat ttctccacat cegtgtcctg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg atgtttggct 300  
 gcgacctggg gccggacggg cgcctcctcc gcgggtataa ccagttcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggatctgc gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 44  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 44  
 gctcccactc catgaggtat ttctccacat cegtgtcctg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggagccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg atgtttggct 300  
 gcgacctggg gccggacggg cgcctcctcc gcgggtataa ccagttcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggatctgc gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 45  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 45  
 gctcccactc catgaggtat ttctccacat cegtgtcctg gcccgccgc ggggagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggagccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg atgtttggct 300  
 gcgacctggg gccggacggg cgcctcctcc gcgggtataa ccagttcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggatctgc gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 46  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 46



```

atgcggtgca tggcgccccg aacctcattc ctgtgtctct cgggagccct ggccctgacc    60
gagacctggg cctgtcccca ctccatgagg tatttttaca ccgccgtgtc ccggcccggc    120
cgcgagagag cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcagttc    180
gacagcgacg ccgcgagtc aagaggggag ccgcggggcg cgtgggtgga gcaggagggg    240
ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac tgaccgagtg    300
aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag    360
aggatgtatg gctgcgacct ggggcccgcac gggcgccctc tccgcgggta taaccagttc    420
gcctacgacg gcaaggatta catgcacctg aatgaggacc tgcgtcctg gaccgccgag    480
gacaaggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagcgg    540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag    600
aagacgtctg agcgcgcgga acacccaaag acacacgtga cccaccatcc cgtctctgac    660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc    720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca    780
ggagatggaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcacctgag atggggggcca    900
tcttcccage ccaccatccc catcgtgggc atcgttctg gcttggctgt cctggctgtc    960
ctagtgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag ctcaggtgga    1020
aaaggaggga gctgtctca ggctgcgtcc agcaacagtg cccagggtc tgatgagtct    1080
ctcatcgctt gtaa                                     1094

```

<210> 47  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

```

<400> 47
gctcccactc catgaggat tttacacccg ccgtgtcccg gcccgccgc ggagagcccc    60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac agcgacgcgg    120
cgagtccaag aggggagccg cgggcgccgt gggtggagca ggagggggcg gagtattggg    180
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaac    240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct    300
gcgacctggg gcccgacggg cgctcctcc gcgggtataa ccagtccgc tacgacggca    360
aggattacat gccttgaat gaggacctgc gctcctggac cgccgaggac aaggcggctc    420
agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg    480
agggcatgtg cgtggagtgg ctgcgcagat acctggagaa cggaaggag acgtgcagc    540
gcgcgg                                     546

```

<210> 48  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

```

<400> 48
atgcggtgca tggcgccccg aacctcattc ctgtgtctct cgggagccct ggccctgacc    60
gagacctggg cctgtcccca ctccatgagg tatttttaca ccgccgtgtc ccggcccggc    120
cgcgagagag cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcagttc    180
gacagcgacg ccgcgagtc aagaggggag ccgcggggcg cgtgggtgga gcaggagggg    240
ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac tgaccgagtg    300
aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag    360
aggatgtatg gctgcgacct ggggcccgcac gggcgccctc tccgcgggta taaccagttc    420
gcctacgacg gcaaggatta catgcacctg aatgaggacc tgcgtcctg gaccgccgag    480
gacaaggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagcgg    540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag    600
aagacgtctg agcgcgcgga cccccaaag acacatgtga cccaccaccc catctctgac    660
catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc    720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca    780
ggagatggaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcacctgag atggggggcca    900

```

tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt cctggctgtc 960  
 ctagctgtcc taggagctgt gatggctgtt gtgatgtga ggaggaagag ctcaggtgga 1020  
 aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc tgatgagctc 1080  
 ctcatcgctt gtaa 1094

<210> 49  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 49  
 gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc ggagagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggagggggccg gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaat gaggacctgc gtcctggac cgccgggac aaggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcgga ga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagaag acgtgcagc 540  
 gcgcgg 546

<210> 50  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 50  
 gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc ggagagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggagggggccg gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct 300  
 gcgacgtggg gcccgacggg cgctcctcc gcgggtataa ccagttcgcc tacgacggca 360  
 aggattacat cgcctgaat gaggacctgc gtcctggac cgccgggac aaggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcgga ga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagaag acgtgcagc 540  
 gcgcgg 546

<210> 51  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 51  
 gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccggccgc ggagagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggagggggccg gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctcctcc gcgggtataa ccagttcgcc tacgacggca 360  
 aggattacat cgcctgaat gaggacctgc gtcctggac cgccgggac aaggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcgga ga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagaag acgtgcagc 540  
 gcgcgg 546

<210> 52  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 52  
 atgcgggtca tggcgccccg aacctcacc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc ccggcccggc 120  
 cgcggagagc cccgcttcat ctacgtgggc tacgtggacg acacgcagtt cgtgcgggtc 180  
 gacagcgacg ccgcgagtc gagaggggag ccccgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacaggc tgaccgagt 300  
 aacctgcgga aactgcgcgg ctactacaac cagagcgagg acgggtctca caccctccag 360  
 tggatgtatg gctgcgacct ggggccccgac gggcgctcc tccgcgggta tgaccagtc 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagtg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga acacccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggcccctg ggcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc atcgttctg gctggctgt cctggctgtc 960  
 ctactgttcc taggagctgt gatggctgt gtgatgtgta ggaggaagag ctacgggtga 1020  
 aaaggaggga gctgcttca ggctgcgtcc agcaacagtg cccagggtc tgatgagtct 1080  
 ctcacgctt gtaa 1094

<210> 53  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 53  
 gctccactc catgaggat ttctacacc ctgtgtcccg gccggccgc ggagagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagtccgag aggggagccc cgggcgccgt ggggtggagca ggaggggccg gattattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagtgg atgtatggct 300  
 gcgacctggg gccgacggg cgctcctcc cggggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 54  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 54  
 gctccactc catgaggat ttgacaccg ccgtgtcccg gccggccgc ggagagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120  
 cgagtccgag aggggagccc cgggcgccgt ggggtggagca ggaggggccg gattattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagtgg atgtatggct 300  
 gcgacctggg gccgacggg cgctcctcc cggggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540

gcgcgg

546

<210> 55  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 55  
 gctccactc catgaggtat ttgcacaccg ccgtgtcccg gcccggccgc ggagagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcagttcgac agcgacgccg 120  
 cgagtccaag aggggagccc cgggcgccgt ggggtggagca ggaggggccg gattattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagtgg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 56  
 <211> 942  
 <212> DNA  
 <213> human leukocyte

<400> 56  
 gctccactc catgaggtat ttgcacaccg ccgtgtcccg gcccggccgc ggagagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccc cgggcgccgt ggggtggagca ggaggggccg gattattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagtgg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcggaaca cccaaagaca cactgaccc accatcccgt ctctgacct gaggccacc 600  
 tgagggtgtg ggcctgggc ttctacctg cggagatcac actgacctg cagcgggatg 660  
 gcgaggacca aactcaggac accgagctt tggagaccag gccagcagga gatggaacct 720  
 tccagaagtg ggcagctgtg gtgtgctt ctggagaaga gcagagatac acgtgccatg 780  
 tgcagcaga ggggtgccg gagccctca cctgagatg ggagccatct tccagccca 840  
 ccaccccat cgtgggcac gttgtggcc tggctgtcct ggctgtccta gctgtcctag 900  
 gactgtgtat ggctgtgtg atgttagga ggaagagctc ag 942

<210> 57  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 57  
 gctccactc catgaggtat ttgcacaccg ccgtgtcccg gcccggccgc ggagagcccc 60  
 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccc cgggcgccgt ggggtggagaa ggaggggccg gattattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagtgg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540

gcgcgg

546

&lt;210&gt; 58

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 58

```

gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccgccgc ggagagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagtccgag aggggagccc cgggcgccgt gggtggagca ggaggggccg gagtattggg 180
accgggagac acagaagtac aagcgccagg cacaggtga cagagtgaac ctgcggaac 240
tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagtgg atgtatggct 300
gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac acggcggctc 420
agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 59

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 59

```

gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccgccgc ggagagcccc 60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagtccgag aggggagccc cgggcgccgt gggtggagca ggaggggccg gagtattggg 180
accgggagac acagaagtac aagcgccagg cacaggtga cagagtgaac ctgcggaac 240
tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagtgg atgtatggct 300
gcgacctggg gcccgacggg cgctctctcc gcgggtataa ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctcctggac cgccgcggac acggcggctc 420
agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 60

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 60

```

atcggggtca tggcgcccc agccctctc ctgctgtct cgggaggcct ggcctgacc 60
gagacctggg cctgtccca ctccatgagg tatttcgaca ccgctgtc ccggcccgcc 120
cgcgagagc cccgttcat ctcaagggtc tacgtggacg acacgcagt cgtgcggtc 180
gacagcgacg ccgaggtcc gagaggggag ccgcgccgc cgtgggtgga gcaggagggg 240
ccgaggtatt gggaccggga gacacagaac tacaagcgc aggcacaggc tgaccgagt 300
agcctgcgga acctgcgcg ctactacaac cagagcgagg acgggtctca caccctccag 360
aggatgtatg gctgcgacct ggggcccgc gggcgctcc tcgcggtgta tgaccagtcc 420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcctg gaccgccgcg 480
gacaccgcgg ctcatatcac ccagcgcaag ttggaggcgg cccgtgcggc ggagcagctg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcgaga accccaaag acacacgtga cccaccacc cctctctgac 660
catgaggcca cctgagggtg ctgggacctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacaccgagc ttgtggagac caggccagca 780
ggagatgga ccttcagaa gtgggcagct gtgggtgtgc cttctggaca agagcagaga 840
tacacgtgcc atatgcagca cgaggggctg caagagcccc tcacctgag ctgggagcca 900

```

tcttcccagc ccaccatccc catcatgggc atcgttgctg gcctggctgt cctggttgtc 960  
 ctactgttcc ttggagctgt ggtcaccgct atgatgtgta ggaggaagag ctcaggtgga 1020  
 aaaggaggga gctgctctca ggctgcgtgc agcaacagtgc cccagggctc tgatgagtct 1080  
 ctcatcactt gtaa 1094

<210> 61  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 61  
 atgcgggtca tggcgccccg agccctcctc ctgctgctct cgggaggcct ggccctgacc 60  
 gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc ccggcccggc 120  
 cgcggagagc cccgcttcat ctactgtggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtcg gagaggggag ccgcggggcg cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaac tacaagcgcc aggcacaggc tgaccgagtg 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg acgggtctca caccctccag 360  
 aggatgtatg gctgcgacct ggggcccgcg gggcgctcc tccgcgggta tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacaccgcgg ctcatatcac ccagcgcaag ttggaggcgg cccgtgcggc ggagcagctg 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgca ga acccccaaag acacacgtga cccaccacc cctctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaca agagcagaga 840  
 tacacgtgcc atatgcagca cgaggggctg caagagcccc tcacctgag ctgggagcca 900  
 tcttcccagc ctaccatccc catcatgggc atcgttgctg gcctggctgt cctggttgtc 960  
 ctactgttcc ttggagctgt ggtcaccgct atgatgtgta ggaggaagag ctcaggtgga 1020  
 aaaggaggga gctgctctca ggctgcgtgc agcaacagtgc cccagggctc tgatgagtct 1080  
 ctcatcactt gtaa 1094

<210> 62  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 62  
 atgcgggtca tggcgccccg agccctcctc ctgctgctct cgggaggcct ggccctgacc 60  
 gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc ccggcccggc 120  
 cgcggagagc cccgcttcat ctactgtggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtcg gagaggggag ccgcggggcg cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacaggc tgaccgagtg 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg acgggtctca caccctccag 360  
 aggatgtctg gctgcgacct ggggcccgcg gggcgctcc tccgcgggta tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacaccgcgg ctcatatcac ccagcgcaag ttggaggcgg cccgtgcggc ggagcagctg 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgca ga acccccaaag acacacgtga cccaccacc cctctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaca agagcagaga 840  
 tacacgtgcc atatgcagca cgaggggctg caagagcccc tcacctgag ctgggagcca 900  
 tcttcccagc ccaccatccc catcatgggc atcgttgctg gcctggctgt cctggttgtc 960  
 ctactgttcc ttggagctgt ggtcaccgct atgatgtgta ggaggaagag ctcaggtgga 1020  
 aaaggaggga gctgctctca ggctgcgtgc agcaacagtgc cccagggctc tgatgagtct 1080  
 ctcatcactt gtaa 1094

<210> 63  
 <211> 1022  
 <212> DNA  
 <213> human leukocyte

<400> 63  
 tgetcccaact ccatgaggta ttctgacacc gccgtgtccc ggcccggcgc cggagagccc 60  
 cgtttcatct cagtgggcta cgtggacgac acgcagttcg tgcggttcga cagcgacgcc 120  
 gcgagtccga gaggggagcc gcgggcgcgc tgggtggagc aggaggggcc ggagtattgg 180  
 gaccgggaga cacagaagta caagcgccag gcacaggctg accgagttag cctgcggaac 240  
 ctgcgcggct actacaacca gagcgaggac gggtctcaca cctccagag gatgtctggc 300  
 tgcgacctgg ggcccgacgg gcgcctctc cgcggtatg accagtccgc ctacgacggc 360  
 aaggattaca tcgcctgaa cgaggacctg cgctcctgga ccgcggcgga caccgcggct 420  
 cagatcaccc agcgcaagtg ggaggcggcc cgtgcggcgg agcagctgag agcctacctg 480  
 gagggactgt gcgtggagtg gctccgaga tacctggaga acgggaagga gacgtgcag 540  
 cgcgcagaac ccccaaagac acacgtgacc caccacccc tctctgacca tgaaggccacc 600  
 ctgaggtgct gggcctggg ctctaccct gcggagatca cactgacctg gcagcgggat 660  
 ggggaggacc agaccagga caccgagctt gtggagacca ggccagcagg agatggaacc 720  
 ttccagaagt gggcagctgt ggtggtgcct tctggacaag agcagagata cacgtgccat 780  
 atgcagcacg aggggctgca agagcccctc accctgagct gggagccatc ttccagccc 840  
 accatcccca tcattgggcat cgttctgtgc ctggtgtcc tggttgtct agctgtcctt 900  
 ggagctgtgg tcaccgctat gatgtgtagg aggaagagct caggtgaaa aggaggagc 960  
 tgetctcagg ctgcgtgcag caacagtgcc cagggtctg atgagtctct cactactgt 1020  
 aa 1022

<210> 64  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 64  
 atgcgggtca tggcgcccc agccctctc ctgctgtct cgggaggcct ggccctgacc 60  
 gagacctggg cctgtccca ctccatgagg tatttcgaca ccgctgtgc ccggcccggc 120  
 cgcgagagc cccgttcat ctcatgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtcc gagaggggag ccccgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagccc aggcacaggc tgaccgagt 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg acgggtctca cacctccag 360  
 aggatgtatg gctgcgacct ggggcccgc ggggcctcc tccggggta tgaccagtc 420  
 gcctacgacg gcaaggatta catgcacct aacgaggacc tgcgtcctg gaccgcgcg 480  
 gacaccgagg ctcatatcag ccagcgcaag ttggaggcgg cccgtgcggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 aagacgtgc agcgcgcgga accccaaag acacacgtga cccaccacc cctctctgac 660  
 ctgaggcca cctgaggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacaccgagc ttgtggagac caggccagca 780  
 ggagatgga cctccagaa gtgggcagct gtggtggtgc cttctggaca agagcagaga 840  
 tacacgtgcc atatcgaca cgaggggctg caagagccc tcacctgag ctgggagcca 900  
 tcttccagc ccaccatccc catcatgggc atcgttctg cctggctgt cctggtgtc 960  
 ctactgtcc ttggagctgt ggtcaccgt atgatgtgta ggaggaagag ctacgtgga 1020  
 aaaggaggga gctgctcga ggtgcgtgc agcaacagt cccagggtc tgatgagtct 1080  
 ctcatcactt gtaa 1094

<210> 65  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 65  
 atgcgggtca tggcgcccc agccctctc ctgctgtct cgggaggcct ggccctgacc 60

gagacctggg cctgtccca ctccatgagg tatttcgaca ccgccgtgtc ccggcccggc 120  
 cgcgagagc cccgttcat ctcatgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc gagaggggag ccccgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacaggc tgaccgagt 300  
 agcctgcgga acctgcgcg ctactataac cagagcgagg acgggtctca cacttccag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcggtg tgaccagttc 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacaccgcgg ctcatcac ccagcgcaag ttggaggcgg cccgtgcggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 aagacgtgc agcgcgcgga accccaaag acacacgtga cccaccacc cctctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacaccgagc ttgtggagac caggccagca 780  
 ggagatgga ccttcagaa gtgggcagct gtggtgtgc cttctggaca agagcagaga 840  
 tacacgtgcc atatgcagca cgaggggctg caagagcccc tcacctgag ctgggagcca 900  
 tcttccagc ccaccatccc catcatgggc atcgttctg gcttgctgt cctggtgtc 960  
 ctactgtcc ttggagctgt ggtcacctg atgatgtgta ggaggaagag ctacggtgga 1020  
 aaaggaggga gctgtctca ggctgcgtg agcaacagt cccagggtc tgatgagtct 1080  
 ctcatcatt gtaa 1094

<210> 66  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 66  
 gctcccact catgaggtat ttgacaccg ccgtgtccc gcccggccgc ggagagcccc 60  
 gttcatctc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacccg 120  
 cgagtccgag aggggagccg cgggcgcctt gggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagaat atgtatggct 300  
 ggcacctggg gcccacggg cgctcctcc cggggtatga ccagtccgc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctctggac cgcgcggac accgcggtc 420  
 agatcaccca gcgaagtgt gagcgggccc gtgcggcgga gcagtgaga gcctacctgg 480  
 agggcacgtg cgtggagtgt ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcag 546

<210> 67  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 67  
 atcggggtca tgggccccc agccctctc ctgtgtctt cgggaggcct ggccctgacc 60  
 gagacctggg cctgtccca ctccatgagg tatttcgaca ccgccgtgtc ccggcccggc 120  
 cgcgagagc cccgttcat ctcatgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc gagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaac tacaagcgc aggcacaggc tgaccgagt 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg acgggtctca caccctccag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcggtg tgaccagtc 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacaccgcgg ctcatcac ccagcgcaag ttggaggcgg cccgtgcggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgaga accccaaag acacacgtga cccaccacc cctctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacaccgagc ttgtggagac caggccagca 780  
 ggagatgga ccttcagaa gtgggcagct gtggtgtgc cttctggaca agagcagaga 840  
 tacacgtgcc atatgcagca cgaggggctg caagagcccc tcacctgag ctgggagcca 900  
 tcttccagc ccaccatccc catcatgggc atcgttctg gcttgctgt cctggtgtc 960



ctagctgtcc ttggagctgt ggtcaccgct aagatgtgta ggaggaagag ctcaggtgga 1020  
 aaaggaggga gctgctctca ggttgctgc agcaacagtg cccagggctc tgatgagtct 1080  
 ctcacactt gtaa 1094

<210> 68  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 68  
 gctccactc catgaggtat ttgacaccg ccgtgtccc gcccggccgc ggagagcccc 60  
 gcttcactc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaactac aagcgccagg cacaggctga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gtcctggac gcccgcgac acccgggctc 420  
 agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcag 546

<210> 69  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 69  
 gctccactc catgaggtat ttgacaccg ccgtgtccc gcccggccgc ggagagcccc 60  
 gcttcactc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg atgtttggct 300  
 gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gtcctggac gcccgcgac acccgggctc 420  
 agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcag 546

<210> 70  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 70  
 gctccactc catgaggtat ttgacaccg ccgtgtccc gcccggccgc ggagagcccc 60  
 gcttcactc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaactac aagcgccagg cacaggctga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctcctcc gcgggtatga ccagtccgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gtcctggac gcccgcgac acccgggctc 420  
 agatcaccca gcgcaagttg gaggcggccc gtgcggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcag 546

<210> 71

<211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 71  
 gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccgccgc ggagagcccc 60  
 gcttcactc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccc cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacat catccagagg atgtctggct 300  
 gcgacctggg gcccgacggg cgctctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctctggac cgccgggac acccggtc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgcggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcag 546

<210> 72  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 72  
 atgcgggtca tggcgcccc agcctctc ctgctctct cgggaggcct ggccctgacc 60  
 gagacctggg cctgtccca ctcatgagg tatttcgaca ccgctgtc ccggcccgcc 120  
 cgcggagagc ccgcttcat ctagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcagtc gagaggggag cccgggccc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagccc aggcacaggc tgaccagtg 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg acgggtctca cacctccag 360  
 aggatgtatg gtgcgacct ggggcccag gggcgctcc tccggggta tgaccagtc 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtctctg gaccgcgag 480  
 gacaccgagg ctacatcac ccagcgaag ttggaggcgg cccgtgcggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 aagacgctgc agcgcgga accccaaag acacacgtga cccaccacc cctctctgac 660  
 catgaggcca cctgagtg ctgggcctg ggctctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacaccgagc ttgtggagac caggccagca 780  
 ggagatgga cctccagaa gtgggcagct gtggtggtgc cttctggaca agacagaga 840  
 tacacgtgcc atatgcagca cgaggggctg caagagcccc tcacctgag ctgggagcca 900  
 tctccagc ccaccatccc catcatggg atcgtgtct gctgggtgt cctggtgtc 960  
 ctagtgtcc ttgagctgt ggtaccgt atgatgtga ggaggaagag ctacagtgga 1020  
 aaaggaggga gtctctca ggctgcgtgc agcaacagtg cccagggtc tgatagttc 1080  
 ctcatgctt gtaa 1094

<210> 73  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 73  
 gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccgccgc ggagagcccc 60  
 gcttcactc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccc cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac ctccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctctggac cgccgggac acccggtc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgcggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagaag acgtgcagc 540  
 gcgcgg 546

<210> 74  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 74  
 gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc ggagagcccc 60  
 gcttcactc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtcgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgage ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg atgtctggct 300  
 gcgacctggg gcccacggg cgcctctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac accgcggctc 420  
 agatcaccca gcgaagttg gaggcggccc gtgcggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcag 546

<210> 75  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 75  
 gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc ggagagcccc 60  
 gcttcactc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtcgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgage ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg atgtacggct 300  
 gcgacctggg gcccacggg cgcctctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac accgcggctc 420  
 agatcaccca gcgaagttg gaggcggccc gtgcggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacag 546

<210> 76  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 76  
 gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccggccgc ggagagcccc 60  
 gcttcactc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtcgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgage ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg atgtctggct 300  
 gcgacctggg gcccacggg cgcctctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac accgcggctc 420  
 agatcaccca gcgaagttg gaggcggccc gtgcggcgga gcagctgaga gcctacctgg 480  
 agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcag 546

<210> 77  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 77

gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccgccgc ggagagcccc 60  
 gcttcatctc agtggggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtcgag aggggagccg cggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaactac aagcgccagg cacaggctga ccgagtgagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgcgcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcgccc gtgcggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcag 546

<210> 78  
 <211> 822  
 <212> DNA  
 <213> human leukocyte

<400> 78  
 gctccactc catgaggtat ttcgacaccg ccgtgtcccg gcccgccgc ggagagcccc 60  
 gcttcatctc agtggggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtcgag aggggagccg cggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggacg ggtctcacac cctccagagg atgtctggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac cgcgcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcgccc gtgcggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcagaacc cccaaagaca cactgaccc accacccct ctctgacct gaggccacc 600  
 tgaggtgctg ggccctgggc ttctacctg cggagatcac actgacctg cagcgggatg 660  
 gggaggacca gaccaggac accgagcttg tggagaccag gccagcagga gatggaacct 720  
 tccagaagtg ggcagctgtg gtggtgcctt ctggacaaga gcagagatac acgtgccata 780  
 tgcagcacga ggggctgcaa gagccctca cctgagctg gg 822

<210> 79  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 79  
 atgcgggtca tggcgccccg agccctctc ctgctgctct cgggaggcct ggcctgacc 60  
 gagacctggg cctgtccca ctccatgagg tatttcgaca ccgccgtgtc ccggcccgc 120  
 cgcggagagc ccgcttcat ctgagtggtc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc gagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaac tacaagcgc aggcacaggc tgaccgagtg 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg acgggtctca caccctccag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcgggta tgaccagtc 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgccgc 480  
 gacaccgcgg ctcatcac ccagcgcaag ttggaggcgg ccgctgcggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggtccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgaga accccaaag acacacgtga cccaccacc cctctctgac 660  
 catgaggcca cctgaggtg ctgggcccgt ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggggagga ccagaccag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa cctccagaa gtgggcagct gtggtggtgc ctctggaca agagcagaga 840  
 tacacgtgcc atatgcaga cgaggggctg caagagcccc tcacctgag ctgggagcca 900  
 tcttccagc ccaccatccc catcatgggc atcgttgctg gcttggtgt cctggtgtc 960  
 ctagctgtcc ttggagctgt ggtcaccgt atgatgtgta ggaggaagag ctgaggtgga 1020  
 aaaggaggga gctgctctca ggtgcgtgc agcaacagt cccagggtc tgatgagct 1080  
 ctcatcactt gtaa 1094

<210> 80  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 80  
 atgcggtca tggcgcccc aacctcacc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg cctgctccca ctccatgagg tattttctaca ccgccgtgtc ccggcccggc 120  
 cgcggagagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcagttc 180  
 gacagcgacg ccgcagtc cagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac tgaccgagt 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtatg gctgcgacct ggggcccgc ggggcctcc tccgaggta taaccagttc 420  
 gcctacgacg gcaaggatta catgccctg aatgaggacc tgcgtcctg gaccgcccgc 480  
 gacagggcgg ctcatatc ccagcgcaag tgggaggcgg ccgtacggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggtccgca gatacctgga gaacgggaag 600  
 aagacgtgc agcgcgagg acaccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgaggagat cactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa cttccagaa gtgggcagct gtggtggtc cttctggaga agagcagaga 840  
 tacacgtgcc atgtcgagca cgaggggctg ccagagcccc tcacctgag atgggggcca 900  
 tcttccagc ccacctccc catcgtgggc atcgttctg cctggctgt cctggctgtc 960  
 ctactgtcc taggagctgt gatggctgt gtgatgtgta ggaggaagag ctacaggtga 1020  
 aaaggaggga gctgctca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080  
 ctcacgctt gtaa 1094

<210> 81  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 81  
 gctccactc catgaggtat ttctacacc ccgtgtccc gcccggccgc ggagagcccc 60  
 gcttcatgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac agcgacgcc 120  
 cgagtcgaag aggggagccg cgggcgccgt gggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggt 300  
 ggcacctggg gcccacggg gcctcctcc cgggtataa ccagttccc tacgacggca 360  
 aggattacat gcctcgaat gaggacctgc gctcctggac cgcgcggac acggcggtc 420  
 agatcaccca gcgaagtgg gagggcgccc gtacggcgga gcagtgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagaag acgctgcagc 540  
 gcgcgg 546

<210> 82  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 82  
 atcggggtca tggcgcccc aacctcacc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg cctgctccca ctccatgagg tattttctaca ccgccgtgtc ccggcccggc 120  
 cgcggagagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcagttc 180  
 gacagcgacg ccgcagtc cagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac tgaccgagt 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtatg gctgcgacct ggggcccgc ggggcctcc tccgaggta taaccagttc 420  
 gcctacgacg gcaaggatta catgccctg aatgaggacc tgcgtcctg gaccgcccgc 480

gacaaggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagcgg 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 aagacgctgc agcgcggga acaccaaag acacacgtga cccacatcc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcacctgag atggggggcca 900  
 tcttcccagc ccacatccc catcgtgggc atcgttgctg gcctggctgt cctggctgtc 960  
 ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag ctcaggtgga 1020  
 aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc tgatgagtct 1080  
 ctcacgctt gtaa 1094

<210> 83  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 83  
 atgggggtca tggcgccccg aacctcatc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg cctgctccca ctccatgagg tatttctaca ccgccgtgtc cggccccggc 120  
 cgcgagagc cccgttcat cgcagtgggc tacgtggacg acacgcagt cgtgcagttc 180  
 gacagcgacg ccgcaggtcc aagaggggag ccgcggggcg cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagccc aggcacagac tgaccgagt 300  
 agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtatg gctgcgacct ggggccccgac gggcgccctc tccgcggtta taaccagttc 420  
 gcctacgacg ccaaggatta catcgccctg aatgaggacc tgcgtcctg gaccgccg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtacggc ggagcagctg 540  
 agagcctacc tggaggggcac gtgcgtggag tggctccgca gatacctgga gaacaggaag 600  
 aagacgctgc agcgcggga acaccaaag acacacgtga cccacatcc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcacctgag atggggggcca 900  
 tcttcccagc ccacatccc catcgtgggc atcgttgctg gcctggctgt cctggctgtc 960  
 ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag ctcaggtgga 1020  
 aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc tgatgagtct 1080  
 ctcacgctt gtaa 1094

<210> 84  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 84  
 gctcccactc catgaggtat ttctacacg ccgtgtcccg gcccgccgc ggagagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctcctcc cgggtataa ccagttcgcc tacgacggca 360  
 aggattacat gcgctgaat gaggacctgc gctcctggac cgccgaggac aaggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagaag acgtgcagc 540  
 gcgcgg 546

<210> 85  
 <211> 546

<212> DNA  
<213> human leukocyte

<400> 85

```
gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccgccgc ggagagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac agcgacgccg 120
cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggagggggccg gagtattggg 180
accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct 300
gcgacctggg gcccgacggg cgctctctcc gcgggtataa ccagttcgcc tacgacggca 360
aggattacat cgccctgaat gaggacctgc gctcctggac cgccgcggac aaggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaagaag acgctgcagc 540
gcgcgg 546
```

<210> 86  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 86

```
gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccgccgc ggagagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac agcgacgccg 120
cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggagggggccg gagtattggg 180
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct 300
gcgacctggg gcccgacggg cgctctctcc gcgggtataa ccagttcgcc tacgacggca 360
aggattacat cgccctgaat gaggacctgc gctcctggac cgccgcggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtacggcgga gcagctgaga gcctacctgg 480
agggcgcggtg cgtggagtgg ctccgcagat acctggagaa cagggaagaag acgctgcagc 540
gcgcgg 546
```

<210> 87  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 87

```
gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccgccgc ggagagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac agcgacgccg 120
cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggagggggccg gagtattggg 180
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct 300
gcgacctggg gcccgacggg cgctctctcc gcgggtataa ccagttcgcc tacgacggca 360
aggattacat cgccctgaat gaggacctgc gctcctggac cgccgcggac aaggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaagaag acgctgcagc 540
gcgcgg 546
```

<210> 88  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 88

```
gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccgccgc ggagagcccc 60
gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcagttcgac agcgacgccg 120
```

cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtatggct 300  
 gcgacctggg gcccagcggg cgcctcctcc gcgggtataa ccagttcgcc tacgacggca 360  
 aggattacat cgcctgaat gaggacctgc gctcctggac cgcgcgggac acggcggtc 420  
 agatcaccca gcgcaagtgg gagcgggccc gtacggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaagaag acgtgcagc 540  
 gcgcgg 546

<210> 89  
 <211> 687  
 <212> DNA  
 <213> human leukocyte

<400> 89  
 atgcgggtca tggcgcccc aacctcacc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg cctgtccca ctccatgagg tatttctaca ccgccgtgtc ccggcccggc 120  
 cgcgagagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcagttc 180  
 gacagcgacg ccgcagtc aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac tgaccgagt 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcgggta tgaccagtc 420  
 gcctacgacg gcaaggatta catcgccctg aatgaggacc tgcgtcctg gaccgcgcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg ccgtacggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacggggag 600  
 aagacgtgc agcgcgcgga acaccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggcc 687

<210> 90  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 90  
 atgcgggtca tggcgcccc aacctcacc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg cctgtccca ctccatgagg tatttctaca ccgccgtgtc ccggcccggc 120  
 cgcgagagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcagtc aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagc tgaccgagt 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacct ggggcccgc gggcgctcc tccgcgggta tgaccagtc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgtgcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg ccgtgagc ggagcagtg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga acaccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa cctccagaa gtgggcagct gtggtgtgct cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagcca 900  
 tctccagc ccaccatcc catcgtggc atcgttgctg gcctggctgt cctggctgtc 960  
 ctagctgtcc taggagctgt gatggctgt gtgatgtgta ggaggaagag ctcaggtgga 1020  
 aaaggaggga gctgctctca ggctgcgtcc agcaacagt cccagggtc tgatgagct 1080  
 ctcacgctt gtaa 1094

<210> 91  
 <211> 1094  
 <212> DNA



&lt;213&gt; human leukocyte

&lt;400&gt; 91

```

atgcgggtca tggcgccccg aaccctcatt ctgtgtctct cgggagccct ggcctgacc    60
gagacctggg cctgtccca ctccatgagg tattttctaca cgcctgtgc cggccccgc    120
cgcgagagac cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc    180
gacagcgacg ccgcgagtc aagaggggag ccgcggggcg cgtgggtgga gcaggagggg    240
ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacaggc tgaccgagtg    300
agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca caccctccag    360
aggatgtacg gctgcgacct ggggccccgac gggcgctcc tccgcgggta tgaccagtcc    420
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg gaccgtgcg    480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg    540
agagcctacc tggagggcac gtgcgtggag tggctccga gatacctgga gaacgggaag    600
gagacgtgc agcgcgcgga acaccaaag acacacgtga cccaccatcc cgtctctgac    660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc    720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca    780
ggagatggaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga    840
tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcacctgag atgggagcca    900
tcttccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt cctggctgtc    960
ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag ctacgggtga    1020
aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc tgatgagtct    1080
ctcatcgctt gtaa                                     1094

```

&lt;210&gt; 92

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 92

```

gtccccactc catgaggtat ttctacaccg ccgtgtcccg gcccgccgc ggagagcccc    60
gttctatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg    120
cgagtccaag aggggagccg cggcgccctg ggttgagca ggagggggccg gattattggg    180
accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc ctgcggaacc    240
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtatggct    300
gcgacctggg gccgacggg gcctcctcc gcggtatga ccagtcgcc tacgacggca    360
aggattacat cgcctgaac gaggacctgc gctcctggac cgtgcggac acggcggctc    420
agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagtggaga gcctacctgg    480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc    540
gcgcggg                                     546

```

&lt;210&gt; 93

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 93

```

atgcgggtca tggcgccccg aaccctcatt ctgtgtctct cgggagccct ggcctgacc    60
gagacctggg cctgtccca ctccatgagg tattttctaca cgcctgtgc cggccccgc    120
cgcgagagac cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc    180
gacagcgacg ccgcgagtc aagaggggag ccgcggggcg cgtgggtgga gcaggagggg    240
ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacaggc tgaccgagtg    300
agcctgcgga acctgcggg ctactacaac cagagcgagg ccgggtctca caccctccag    360
tggatgtatg gctgcgacct ggggccccgac gggcgctcc tccgcgggta tgaccagtcc    420
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg gactgcccg    480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg    540
agagcctacc tggagggcac gtgcgtggag tggctccga gatacctgga gaacgggaag    600
gagacgtgc agcgcgcgga acaccaaag acacacgtga cccaccatcc cgtctctgac    660
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc    720

```

tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcacctgag atgggagcca 900  
 tcttccagc ccacatccc catcgtgggc atcgttgctg gcctggctgt cctggctgtc 960  
 ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag ctcaggtgga 1020  
 aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc tgatgagtct 1080  
 ctcacgtctt gtaa 1094

<210> 94  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 94  
 gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccgccgc ggagagcccc 60  
 gcttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt ggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg atgtatggct 300  
 gcgacctggg gccgacggg gcctcctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat gcctcgaac gaggacctgc gctcctggac cgcggcggac acggcggtc 420  
 agatcaccca gcgaagtgg gagggcgccc gtgagcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 95  
 <211> 681  
 <212> DNA  
 <213> human leukocyte

<400> 95  
 atgcgggtca tggcgcccc aacctcattc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg cctgtccca ctccatgagg tattttctaca ccgccgtgtc cggccccgc 120  
 cgcggagagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgagc ccgcagtcg gagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacaggc tgaccgagtg 300  
 aacctgcgga aactgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 tggatgtatg gctgcgacct ggggccccgac gggcgctcc tccgcgggta tgaccagtcc 420  
 gcctacgagc gcaaggatta catgcacctg aacgaggacc tgcgtcctg gaccgcgcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggagggcg cccgtgaggc ggagcagtgg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga acaccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca cctgaggtg c 681

<210> 96  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 96  
 atgcgggtca tggcgcccc aacctcattc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg cctgtccca ctccatgagg tattttctaca ccgccgtgtc cggccccgc 120  
 cgcggagagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgagc ccgcagtcg aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacaggc tgaccgagtg 300  
 aacctgcgga aactgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 tggatgtatg gctgcgacct ggggccccgac gggcgctcc tccgcgggta tgaccagtcc 420

```

gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcctg gactgccgcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga acacccaaag acacacgtga cccaccatcc cgtctctgac 660
catgaggcca cctgaggtg ctgggccctg ggttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780
ggagatggaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag atgggagcca 900
tcttccagc ccaccatccc catcgtgggc atcgttctg gcttggtgt cctggctgtc 960
ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag ctcaggtgga 1020
aaaggaggga gctgcttca ggctgcgtcc agcaacagtg cccagggctc tgatgagtct 1080
ctcatcgctt gtaa 1094

```

<210> 97  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

```

<400> 97
atggcgggtca tggcgcgccg aaccctcatc ctgctgctct cgggagccct ggcctgacc 60
gagacctggg cctgtccca ctcctagagg tatttctaca ccgccgtgtc ccggcccgcc 120
cgcggagagc cccgttcat cgcagtggc tacgtggac acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagtc aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240
ccggagtatt gggaccggga gacacagaag tacaagcgcc aggcacagac tgaccgagtg 300
aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
tggatgtatg gctgcgacct ggggcccgac ggggcctcc tccgcgggta tgaccagtcc 420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcctg gactgccgcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540
agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcgga acacccaaag acacacgtga cccaccatcc cgtctctgac 660
catgaggcca cctgaggtg ctgggccctg ggttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780
ggagatggaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcaccctgag atgggagcca 900
tcttccagc ccaccatccc catcgtgggc atcgttctg gcttggtgt cctggctgtc 960
ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag ctcaggtgga 1020
aaaggaggga gctgcttca ggctgcgtcc agcaacagtg cccagggctc tgatgagtct 1080
ctcatcgctt gtaa 1094

```

<210> 98  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

```

<400> 98
gtccccactc catgaggtat ttctacaccg ccgtgtcccg gcccgccgc ggagagcccc 60
gcttcatcgc agtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgccg 120
cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180
accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg atgtatggct 300
gcgacctggg gccgacggg cgcctcctcc gcgggtatga ccagtcgcc tacgacgtca 360
aggattacat cgcctgaac gaggacctgc gctctggac tgcccgggac acggcggtc 420
agatcaccca gcgaagtgg gaggggccc gtgaggcgga gcagtggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 99

<211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 99  
 gctcccactc catgaggtat ttctacaccg ccgtgtcccg gcccgccgc ggagagcccc 60  
 gtttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggagggggccg gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgggc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg atgtatggct 300  
 gcgacctggg gcccgacggg cgctcctcc cgggtatga ccagtccgc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcctggac tgcgcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gagggggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 100  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 100  
 atgcgggtca tggcgcccc aacctcacc ctgctgctct cgggagccct ggcctgacc 60  
 gagacctggg cctgtccca ctccatgagg tatttttaca ccgcgtgtc ccggcccgcc 120  
 cgcgagagac ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtcc aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaac tacaagcgc aggcacaggc tgaccgagtg 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacct ggggcccgc gggcgctcc tccgcgggta tgaccagtcc 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg gaccgtgcg 480  
 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagtgg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgcgga acaccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccagagcccc tcacctgag atgggagcca 900  
 tcttccagc ccacctccc catcgtgggc atcgttctg ccttggtgt cctggctgtc 960  
 ctactgtcc taggagctgt gatggctgt gtgatgtga ggaggaagag ctacgttga 1020  
 aaaggaggga gctgcttca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080  
 ctcatcgctt gtaa 1094

<210> 101  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 101  
 atgcgggtca tggcgcccc aacctcacc ctgctgctct cgggagccct ggcctgacc 60  
 gagacctggg cctgtccca ctccatgagg tatttttaca catcgtgtc ccggcccgcc 120  
 cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtcc gagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac tgaccgagtg 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 tggatgtttg gctgcgacct ggggcccgc gggcgctcc tccgcgggta tgaccagtcc 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg gaccgcgcg 480  
 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagcgg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600

gagacgtgc agcgcgcgga acacccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagtggg atggggagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagccg 900  
 tttccagc ccaccatccc catcgtgggc atcgttctg gcttggtgt cctggctgtc 960  
 ctactgtcc taggagctgt ggtggctgt gtgatgtga ggaggaagag ctacaggtga 1020  
 aaaggaggga gctgcttca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080  
 ctcacgtt gtaa 1094

<210> 102  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 102  
 gctcccactc catgaggtat ttctccacat ccgtgtcccc gccggccgc ggggagcccc 60  
 gttcatcgc agtgggctac gtggacgaca cgagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccg cgggcgccgt ggttgaggca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctcagtgg atgtttggct 300  
 gcgacctggg gcccgacggg cgcctctcc gcgggtatga ccagtcgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctctggac cgccgaggac acggcggtc 420  
 agatcacca gcgcaagtgg gagggcgccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 103  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 103  
 atgggggtca tggcgcccc aacctcactc ctgctgtct cgggagccct ggccctgacc 60  
 gagacctggg cctgtccca ctcatgagg ttttttcca catccgtgc ccggcccggc 120  
 cgcggggagc cccacttcat cgcagtgggc tacgtggagc acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc aagaggggag ccgcgggccc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagccc aggcacagac tgaccgagt 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca cacctccag 360  
 tggatgtttg gctgcgacct ggggcccgc gggcgctcc tccggggta tgaccagtc 420  
 gcctacgagc gcaaggatta catgcacctg aacgaggatc tgcgtctctg gaccgccgcg 480  
 gacacggcgg ctacatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagcgg 540  
 agagcctacc tggagggcac gtgcgtggag tggtccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga acacccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgaggagat cacactgacc 720  
 tggcagtggg atggggagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagccg 900  
 tttccagc ccaccatccc catcgtgggc atcgttctg gcttggtgt cctggctgtc 960  
 ctactgtcc taggagctgt ggtggctgt gtgatgtga ggaggaagag ctacaggtga 1020  
 aaaggaggga gctgcttca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080  
 ctcacgtt gtaa 1094

<210> 104  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

&lt;400&gt; 104

```

gctcccactc catgaggtat ttctccacat cegtgtcccg gcccgccgc ggggagcccc 60
gcttcatcgc agtggggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagtccgag aggggagccg cggcgccgt ggggtggagca ggaggggccc gagtattggg 180
accgggagac acagaagtac aagcgccagg cacaggctga ccgagtgaac ctgcggaacc 240
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg atgtttggct 300
gcgacctggg gcccgacggg cgctctcc gcgggtatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggatctgc gctcctggac cgccgaggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 105

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 105

```

gctcccactc catgaggtat ttctccacat cegtgtcccg gcccgccgc ggggagcccc 60
gcttcatcgc agtggggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagtccgag aggggagccg cggcgccgt ggggtggagca ggaggggccc gagtattggg 180
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaacc 240
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagtgg atgtatggct 300
gcgacctggg gcccgacggg cgctctcc gcgggtatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggatctgc gctcctggac cgccgaggac acggcggctc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540
gcgcgg 546

```

&lt;210&gt; 106

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 106

```

atgcgggtca tggcgccccg aacctctctc ctgtgtctc cgggagccct ggccctgacc 60
gagacctggg cctgtccca ctcatgagg tattttaca ccgtgtgtc ccggcccgcc 120
cgcgagagc cccacttcat cgcagtggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgagagtc aagaggggag ccgcgggccc cgtgggtgga gcaggagggg 240
ccggagtatt gggaccggga gacacagaac tacaagcgc aggcacagac tgaccgagtg 300
aactgcgga aactgcgcg ctactacaac cagagcgagg ccgggtctca catcatccag 360
aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcgggca tgaccagtta 420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcctg gaccgccgcg 480
gacacggcgg ctcatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagctg 540
agagcctacc tggagggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600
gagacgtgc agcgcgcgga acaccaaag acacacgtga cccaccatcc cgtctctgac 660
catgaggcca cctgaggtg ctgggcccgt ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780
ggagatggaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagcca 900
tcttcccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt cctggctgtc 960
ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag ctacagtgga 1020
aaaggaggga gctgcttca ggtgcgtcc agcaacagt ccaggggctc tgatgagct 1080
ctcatcgctt gtaa 1094

```

&lt;210&gt; 107

<211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 107  
 gctccattc catgaggat ttctacaccg ctgtgtcccg gcccgccgc ggagagcccc 60  
 acttcacgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaactac aagcgccagg cacagactga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagttagcc tacgacggca 360  
 aggtattacat gccctgaac gaggacctgc gtcctggac cgcgcggac acggcggtc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 108  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 108  
 atgggggtca tggcgccccg aacctcctc ctgtgtctct cgggagccct ggccctgacc 60  
 gagacctggg cctgtccca ctccatgagg tatttttaca ccgtgtgtc ccggcccggc 120  
 cgcggagagc cccattcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaac tacaagcgc aggcacaggc tgaccgagt 300  
 aacctgcgga aactgcgcg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcggtga tgaccagtta 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacttga gaacgggaag 600  
 gagacgtgc agcgcgcca acaccaaag acacacgtga cccaccatc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatgga ccttcagaa gtgggcagct gtggtgtgtc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatcc catcgtgggc atcgttctg gctggtgt cctggtgtc 960  
 ctactgtcc taggagctgt gatggtgt gtatgtgtta ggaggaagag ctacgttga 1020  
 aaaggaggga gctgtctca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080  
 ctcatcgctt gtaa 1094

<210> 109  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 109  
 atgggggtca tggcgccccg aacctcctc ctgtgtctct cgggagccct ggccctgacc 60  
 gagacctggg cctgtccca ctccatgagg tatttttaca ccgtgtgtc ccggcccggc 120  
 cgcggagagc cccattcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaac tacaagcgc aggcacagac tgaccgagt 300  
 aacctgcgga aactgcgcg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcggtga tgaccagtcc 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacttga gaacgggaag 600

gagacgctgc agcgcgcgga acacccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc atcgttgctg gcttggtgt cctggctgtc 960  
 ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag ctcaggtgga 1020  
 aaaggaggga gctgctctca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080  
 ctcacgtt gtaa 1094

<210> 110  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 110  
 atgcgggtca tggcgccccg aactctctc ctgctgtct cgggagccct ggccctgacc 60  
 gagacctggg cctgtctcca ctccatgagg tatttctaca ccgtgtgtc ccggcccgc 120  
 cgcggagagc ccaacttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaac tacaagccc aggcacagac tgaccgagt 300  
 aacctgcgga aactgcgcg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcgggca tgaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga acacccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc atcgttgctg gcttggtgt cctggctgtc 960  
 ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag ctcaggtgga 1020  
 aaaggaggga gctgctctca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080  
 ctcacgtt gtaa 1094

<210> 111  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 111  
 atgcgggtca tggcgccccg aacctctc ctgctgtct cgggagccct ggccctgacc 60  
 gagacctggg cctgtctcca ctccatgagg tatttctaca ccgtgtgtc ccggcccgc 120  
 cgcggagagc ccaacttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaac tacaagccc aggcacagac tgaccgagt 300  
 aacctgcgga aactgcgcg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcgggca tgaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga acacccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc atcgttgctg gcttggtgt cctggctgtc 960



ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag ctcaggtgga 1020  
 aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc tgatgagtct 1080  
 ctcacgctt gtaa 1094

<210> 112  
 <211> 1015  
 <212> DNA  
 <213> human leukocyte

<400> 112  
 atgcgggtca tggcgccccg aacctctc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg cctgctcca ctccatgagg tattctaca ccgtgtgtc ccggcccggc 120  
 cgcggagagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggtc 180  
 gacagcgacg ccgcgagtc aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaac tacaagcgc aggcacagac tgaccgagt 300  
 aacctgcgga aactgcggg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcgggca tgaccgtac 420  
 gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtctctg gaccgcgcg 480  
 gacacggcgg ctcatgac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga acaccaaag acacacgtga cccacctc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa ccttcagaa gtgggcagct gtggtgtgct cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatcc catcgtgggc atcgttctg gcttgctgt cctggctgtc 960  
 ctagctgtcc taggagctgt gatggctgtt gtgatgtgta ggaggaagag ctcag 1015

<210> 113  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 113  
 gctccactc catgaggtat ttctacaccg ctgtgtcccg gcccgccgc ggagagcccc 60  
 acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcg 120  
 cgagtccaag aggggagccg cgggcgcctg ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaactac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggcgg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctctcc gcgggcatga ccagttagcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctctggac gcgcgggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 114  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 114  
 gctccactc catgaggtat ttctacaccg ctgtgtcccg gcccgccgc ggagagcccc 60  
 acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcg 120  
 cgagtccaag aggggagccg cgggcgcctg ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaactac aagcgccagg cacagactga ccgagtgaac ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggcgg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctctcc gcgggcatga ccagttagcc tacgacggca 360

aggattacat cgccctgaac gaggacctgc gtcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 115  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 115  
 gctccactc catgaggtat ttctacaccg ctgtgtccc gcccggccgc ggagagcccc 60  
 acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaactac aagcgccagg cacagactga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gtcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 116  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 116  
 gctccactc catgaggtat ttctacaccg cgtgtccc gcccggccgc ggagagcccc 60  
 gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaactac aagcgccagg cacagactga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagttagcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gtcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 117  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 117  
 gctccactc catgaggtat ttctacaccg ctgtgtccc gccagccgc ggagagcccc 60  
 acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccaag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaaac 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagttagcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gtcctggac cgccgaggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 118  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 118  
 atgcgggtca tggcgccccg aacctcacc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg cctgctccca ctccatgagg tatttctaca ccgccgtgtc ccggcccggc 120  
 cgcgagagagc cccgcttcat cgagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac tgaccagtg 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 tggatgtatg gctgcgacct ggggccccgac gggcgccctc tccgcgggta tgaccagtc 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg ccgtgcggc ggagcagcag 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga acacccaaag acacacgtga cccaccatct cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc atcgttctg gctgggtgt cctggctgtc 960  
 ctagctgtcc taggagctgt ggtggctgtt gttatgtgta ggaggaagag ctcaggtgga 1020  
 aaaggaggga gctgcttca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080  
 ctcacgctt gtaa 1094

<210> 119  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 119  
 atgcgggtca tggcgccccg aacctcacc ctgctgctct cgggagccct ggccctgacc 60  
 gagacctggg cctgctccca ctccatgagg tatttctaca ccgccgtgtc ccggcccggc 120  
 cgcgagagagc cccgcttcat cgagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac tgaccagtg 300  
 aacctgcgga aactgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 tggatgtatg gctgcgacct ggggccccgac gggcgccctc tccgcgggta tgaccagtc 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg ccgtgcggc ggagcagcag 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga acacccaaag acacacgtga cccaccatct cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atgggagcca 900  
 tcttccagc ccaccatccc catcgtgggc atcgttctg gctgggtgt cctggctgtc 960  
 ctagctgtcc taggagctgt ggtggctgtt gttatgtgta ggaggaagag ctcaggtgga 1020  
 aaaggaggga gctgcttca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080  
 ctcacgctt gtaa 1094

<210> 120  
 <211> 1015  
 <212> DNA  
 <213> human leukocyte

<400> 120

```

atgcggttca tggcgccccg aacctcacc ctgtgtctct cgggagccct ggccctgacc 60
gagacctggg cctgtccca ctccatgagg tattttctaca ccgccgtgtc ccggcccggc 120
cgcgagagag ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcaggtcc aagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240
ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacagac tgaccgagtg 300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggttctca caccctccag 360
tggatgtatg gctgcgacct ggggcccgcac gggcgccctcc tccgcgggta tgaccagtcc 420
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg gaccgcgagc 480
gacacggcgg ctcagatcac ccagcgcaag ttggaggcgg ccgtgcggc ggagcagtgg 540
agagcctacc tggagggcac gtgcgtggag ttgctccgca gatacctgga gaacgggaag 600
gagacgtcgc agcgcgcgga acacccaaag acacacgtga cccaccatct cgtctctgac 660
catgaggcca ccctgagggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780
ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcaccctgag atgggagcca 900
tcttccagc ccaccatccc catcgtgggc atcgttctg gcctggctgt cctggctgtc 960
ctagctgtcc taggagctgt ggtggctgtt gttatgtga ggaggaagag ctcag 1015

```

&lt;210&gt; 121

&lt;211&gt; 1015

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 121

```

atcggggtca tggcgccccg agccctcctc ctgtgtctct cgggagccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tattttctaca ccgccgtgtc ccggcccggc 120
cgcgagagag ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcaggtcc gagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240
ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacaggc tgaccgagtg 300
aacctgcgga aactgcgagg ctactacaac cagagcgagg ccggttctca caccatccag 360
aggatgtatg gctgcgacct ggggcccgcac gggcgccctcc tccgcgggta taaccagttc 420
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg gaccgcgagc 480
gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg ccgtgaggc ggagcagtgc 540
agagcctacc tggagggcga gtgcgtggag ttgctccgca gatacctgga gaacgggaag 600
gagacgtcgc agcgcgcgga acgccc aaag acacacgtga cccaccatcc cgtctctgac 660
catgaggcca ccctgagggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720
tggcagcggg atgggggagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780
ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agaacagaga 840
tacacgtgcc atgtgcagca cgaggggctg caggagccct gcaccctgag atggaagccg 900
tcttccagc ccaccatccc caacttgggc atcgtttctg gccagctgt cctggctgtc 960
ctggctgtcc tggtgtcct agctgtccta ggagctgtgg tcgtgtctgt gatac 1015

```

&lt;210&gt; 122

&lt;211&gt; 895

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 122

```

atcggggtca tggcgccccg aacctcacc ctgtgtctct cgggagccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tattttctaca ccgccgtgtc ccggcccggc 120
cgcgagagag ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcaggtcc gagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240
ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacaggc tgaccgagtg 300
aacctgcgga aactgcgagg ctactacaac cagagcgagg ccggttctca caccatccag 360
aggatgtatg gctgcgacct ggggcccgcac gggcgccctcc tccgcgggta taaccagttc 420
gcctacgacg gcaaggatta catgcacctg aacgaggacc tgcgtcctg gaccgcgagc 480
gacacggcgg ctcagatctc ccagcgcaag ttggaggcgg ccgtgaggc ggagcagtgc 540
agagcctacc tggagggcga gtgcgtggag ttgctccgca gatacctgga gaacgggaag 600

```

gagacgctgc agcgcgcgga acgccccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca ccttgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atgggggagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaca agaacagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg caggagccct gcacctgag atgga 895

<210> 123  
 <211> 1014  
 <212> DNA  
 <213> human leukocyte

<400> 123  
 atgcggtca tggcgcccca agccctctc ctgctgctct cgggagccct ggccctgac 60  
 gagacctgga ccggtccca ctccatgagg tatttttaca ccgccgtgtc ccggcccggc 120  
 cgcgagagc ccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc gagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacaggc tgaccgagtg 300  
 aacctgcgga aactgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 aggatgtatg gctgcgacct ggggcccgac gggcgctcc tccgcgggta taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcggcg 480  
 gacacggcgg ctacgatctc cagcgcaagt tggaggcggc ccgtgaggcg gagcagctga 540  
 gagcctacct ggagggcgag tgcgtggagt ggctccgagg atacctggag aacgggaagg 600  
 agacgctgca gcgcgcggaa cgcctaaaga cacacgtgac ccaccatccc gtctctgacc 660  
 atgagggcac cctgaggtgc tgggccctgg gcttctaccc tgcggagac acactgacct 720  
 ggcagcggga tggggaggac caaactcagg acaccgagct tgtggagacc aggccagcag 780  
 gagatggaa cttccagaag tgggcagctg tgggtggtgc ttctggaca gaacagagat 840  
 acacgtgcca tgtgcagcac gaggggctgc aggagccctg caccctgaga tggagccgt 900  
 cttccagcc caccatccc aactgggca tcgttctg cccagctgtc ctggtgtcc 960  
 tggctgtcct ggctgtccta gctgtcctag gagctgtggt cgctgctgtg atac 1014

<210> 124  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 124  
 atgcggtca tggcgcccg agccctctc ctgctgctct cgggaggcct ggccctgacc 60  
 gagacctggg cctgtccca ctccatgagg tatttcgaca ccgccgtgtc ccggcccggc 120  
 cgcgagagc ccgcttcat ctacgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc gagaggggag ccccgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacaggc tgaccgagtg 300  
 aacctgcgga aactgcgcgg ctactacaac cagagcgagg acgggtctca caccctccag 360  
 aggatgtttg gctgcgacct ggggccggac gggcgctcc tccgcgggta taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctacgatcac ccagcgcaag tgggaggcgg ccgtgaggc ggagcagcgg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga acacccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca ccttgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagtggt atgggggagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcagca cgaggggctg ccggagcccc tcacctgag atggaagccg 900  
 tcttccagc ccaccatccc catcgtgggc atcgttctg gcctggctgt cctggttgc 960  
 ctacgtgtcc taggagctgt ggtggtgtt gtgatgtgta ggaggaagag ctacggtgga 1020  
 aaaggaggga gctgtctca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080  
 ctacgtgtt gtaa 1094

<210> 125

<211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 125  
 atgcgggtca tggcgccccg agccctcctc ctgctgctct cgggaggcct ggccctgacc 60  
 gagacctggg cctgctccca ctccatgagg tatttcgaca ccgccgtgtc ccggcccggc 120  
 cgcgagagac cccgttcat ctcaagtggg tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc gagaggggag ccccgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagaag tacaagcgc aggcacaggc tgaccgagt 300  
 aacctgcgga aactgcgagg ctactacaac cagagcgagg acgggtctca caccctccag 360  
 aggatgtttg gtgcgacct ggggccggac gggcgctcc tccgcgggta taaccagttc 420  
 gcctacgacg gcaaggatta catgccttg aacgaggatc tgcgtcctg gaccgccgcg 480  
 gacacggcgg ctcaatcac ccagcgaag tgggaggcgg cccgtgaggc ggagcagcgg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccga gatactgga gaacgggaag 600  
 gagacgtgc agcgcgcgga acacccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggcctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagtggg atggggagga ccaaactcag gacaccgagc ttgtggagac caggccagca 780  
 ggagatggaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacgtgcc atgtgcaga cgaggggctg ccggagcccc tcacctgag atggaagccg 900  
 tcttcccagc ccaccatccc catcgtgggc atcgttctg gcctggctgt cctggctgtc 960  
 ctactgtcc taggagctgt ggtggctgt gtgatgtgta ggaggaagag ctcagggtgga 1020  
 aaaggaggga gctgctctca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080  
 ctcacgctt gtaa 1094

<210> 126  
 <211> 18  
 <212> DNA  
 <213> artificial sequence

<220>  
 <223> probe for detection

<400> 126  
 caccctccag tggatgtg 18

<210> 127  
 <211> 18  
 <212> DNA  
 <213> artificial sequence

<220>  
 <223> probe for detection

<400> 127  
 ccgcgggtat gaccagta 18

<210> 128  
 <211> 16  
 <212> DNA  
 <213> artificial sequence

<220>  
 <223> probe for detection

<400> 128  
 gaccgcccgc gacacc 16

<210> 129  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 129  
agaagtgggc agctgtga

18

<210> 130  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 130  
cctcctccgc gggata

17

<210> 131  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 131  
gcgctcctgg accgct

16

<210> 132  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 132  
gcacgagggg ctgcca

16

<210> 133  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 133  
ctgtcctagg agctgtga

18

<210> 134  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 134  
caccctccag aggatgtc

18

<210> 135  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 135  
gggaggcggc ccgtgt

16

<210> 136  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 136  
gggcgcctcc tccga

16

<210> 137  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 137  
caagtgggag gcggcct

17

<210> 138  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 138  
ccgtgaggcg gagcagt

17



<210> 139  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 139  
agtgaacctg cggaaacta

19

<210> 140  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 140  
ccctgggctt ctacccta

18

<210> 141  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 141  
gaccgccgcg gacaca

16

<210> 142  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 142  
gctgtgtccc ggccca

16

<210> 143  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 143  
gaccgccgcg gacacg

16

<210> 144  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 144  
ccctgagatg ggagcca

17

<210> 145  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 145  
ggtctcacac cctccaga

18

<210> 146  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 146  
cgcggtatg accagtc

17

<210> 147  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 147  
gcctacctgg agggcga

17

<210> 148  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 148  
ctcccactcc atgaggtg

18

<210> 149  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 149  
cgcgggcatg accagtta

18

<210> 150  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 150  
ggaccaaact caggacact

19

<210> 151  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 151  
caaccagagc gaggcca

17

<210> 152  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 152  
aggccaggtc tcacatca

18

<210> 153  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 153  
gaagtgggca gctgtgg

17

<210> 154  
<211> 15  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 154  
gcggacacgg cggcc

15

<210> 155  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 155  
atggctgcga cgtggga

17

<210> 156  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 156  
ggccgggtct cacatca

17

<210> 157  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 157  
catcatccag aggatgtac

19

<210> 158  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 158  
ccgcagatac ctgaagaat

19

<210> 159  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 159  
ctcacaccct ccagagc

17

<210> 160  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 160  
ctcctccgcg ggtatgt

17

<210> 161  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 161  
cacagactga ccgagtga

19

<210> 162  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 162  
cgagtgaacc tgcggaaa

18

<210> 163  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 163  
ggatgtatgg ctgcgacg

18

<210> 164  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 164  
gcctacctgg agggcct

17

<210> 165  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 165  
gaccgggaga cacagaac

18

<210> 166  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 166  
ggagccccac ttcacg

17

<210> 167  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 167  
cgagtgagcc tgcgaaa

18

<210> 168  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 168  
cgcggtatg accagtta

18

<210> 169  
<211> 15  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 169  
ggaggcgcc cgtgc

15

<210> 170  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 170  
ctacaaccag agcgagga

18

<210> 171  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 171  
cgtgaggcgg agcagct

17

<210> 172  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 172  
ctagctgtcc taggagcta

19

<210> 173  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 173  
ggctacgtgg acgacaca

18

<210> 174  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 174  
gccgcggaga gcccga

16

<210> 175  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 175  
gagatacacg tgccatgtt

19

<210> 176  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 176  
gaggggagcc gcggga

16

<210> 177  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 177  
catgcagtg ggctacc

17

<210> 178  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 178  
ctgcgacctg gggccg

16



<210> 179  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 179  
tctccacatc cgtgtcct

18

<210> 180  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 180  
caagcgccag gcacagg

17

<210> 181  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 181  
ggaccgccgc ggacaa

16

<210> 182  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 182  
ctcaccctga gatgggg

17

<210> 183  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 183  
tgtgcgtgga gtggctg

17

<210> 184  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 184  
ccatctctga ccatgaggt

19

<210> 185  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 185  
acctggagaa cggaaga

18

<210> 186  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 186  
ccgcgggtat aaccagtt

18

<210> 187  
<211> 15  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 187  
ggagccgcgg gcgcg

15

<210> 188  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 188  
tccgagaggg gagccc

16

<210> 189  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 189  
gaggtatttc tacaccgct

19

<210> 190  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 190  
cgacgccgcg agtcca

16

<210> 191  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 191  
gtccaagagg ggagccc

17

<210> 192  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 192  
gcgccgtggg tggaga

16

<210> 193  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 193  
caccctccag aggatgta

18

<210> 194  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 194  
gatcaccag cgcaagtt

18

<210> 195  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 195  
gacgctgcag cgcgca

16

<210> 196  
<211> 20  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 196  
ctctgatgag tcttcatca

20

<210> 197  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 197  
gagccatctt cccagcct

18

<210> 198  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 198  
gagcctacct ggaggga

17

<210> 199

<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 199  
tgcggcggag caggac

16

<210> 200  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 200  
aacctgcgcg gctactat

18

<210> 201  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 201  
gtctcacacc ctccagaat

19

<210> 202  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 202  
agctgtggtc accgctaa

18

<210> 203  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 203  
caccctccag aggatgtt

18

<210> 204

<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 204  
aggacgggtc tcacatca 18

<210> 205  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 205  
acatcatcca gaggatgtc 19

<210> 206  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 206  
tgctctcagg ctgcgtg 17

<210> 207  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 207  
ccgcgggtat gaccagtt 18

<210> 208  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 208  
ggagacgctg cagcgca 17

<210> 209

<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 209  
gccctcacc ctgagc 16

<210> 210  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 210  
gggagctgct ctcaggt 17

<210> 211  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 211  
cgtagggcgg agcagct 17

<210> 212  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 212  
accctccaga ggatgtac 18

<210> 213  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 213  
tgggaggcgg cccgta 16

<210> 214

<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 214  
cgcgatgacc tggagaaca

19

<210> 215  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 215  
gcctacctgg agggcg

16

<210> 216  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 216  
gatacctgga gaacgggg

18

<210> 217  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 217  
acctgcgctc ctggact

17

<210> 218  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 218  
gcgctcctgg accgcg

16

<210> 219



<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 219  
agagccccgc ttcacgc 17

<210> 220  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 220  
cacctccag tggatgta 18

<210> 221  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 221  
cagtcgcct acgacgt 17

<210> 222  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 222  
acaggctgac cgagtgg 17

<210> 223  
<211> 20  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 223  
cactccatga ggtattctc 20

<210> 224  
<211> 18

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 224  
caccctccag tggatgtt 18

<210> 225  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 225  
acaggctgac cgagtga 18

<210> 226  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 226  
atcgccctga acgaggat 18

<210> 227  
<211> 15  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 227  
gcctcctccg cgggc 15

<210> 228  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 228  
tcatggcgcc ccgaact 17

<210> 229  
<211> 17

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 229  
cgcgggcatg accagtt

17

<210> 230  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 230  
cgcgggcatg accagtc

17

<210> 231  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 231  
gtgcggcgga gcagca

16

<210> 232  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 232  
gctgtgtgg ctgtgtt

18

<210> 233  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 233  
cgtgcggcgg agcagt

16

<210> 234  
<211> 18

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 234  
tggtcgctgc tgtgatac 18

<210> 235  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 235  
ggctgcagga gccttg 16

<210> 236  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 236  
ccctgatcga gacctgga 18

<210> 237  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 237  
ccctcacct gagatgga 18

<210> 238  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 238  
ggcctggctg tcctggt 17

<210> 239  
<211> 17

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 239  
gtggatgtgt ggctgcg 17

<210> 240  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 240  
atgaccagta cgcctacg 18

<210> 241  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 241  
gcggacaccg cggctc 16

<210> 242  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 242  
gcagctgtga tggcgcct 18

<210> 243  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 243  
cgcggtata accagttc 18

<210> 244  
<211> 17

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 244  
tggaccgctg cggacac

17

<210> 245  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 245  
gggctgccag agcccc

16

<210> 246  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 246  
ggagctgtga tggctgtt

18

<210> 247  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 247  
gaggatgtct ggctgcg

17

<210> 248  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 248  
ggcccgtgtg gcggag

16

<210> 249  
<211> 18

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 249  
ctcctccgca ggtatgac

18

<210> 250  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 250  
ggcggcctgt gaggcg

16

<210> 251  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 251  
cggagcagtg gagagcc

17

<210> 252  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 252  
gcggaaacta cgcggtca

18

<210> 253  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 253  
ttctacccta cgagatca

19

<210> 254  
<211> 16

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 254  
gcggacacag cggctc 16

<210> 255  
<211> 15  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 255  
ccggcccagc cgagg 15

<210> 256  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 256  
gcggacacgg cggctc 16

<210> 257  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 257  
atgggagcca tcttcca 18

<210> 258  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 258  
accctccaga ggatgtatg 19

<210> 259  
<211> 17



<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 259  
tgaccagtcc gcctacg 17

<210> 260<  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 260  
ggagggcgag tgcgtg 16

<210> 261  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 261  
ccatgaggtg tttctacac 19

<210> 262  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 262  
tgaccagtta gcctacgac 19

<210> 263  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 263  
tcaggacact gagcttgtg 19

<210> 264  
<211> 17

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 264  
gcgaggccag gtctcac 17

<210> 265  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 265  
tctcacatca tccagagga 19

<210> 266  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 266  
cagctgtggt ggtgcct 17

<210> 267  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 267  
acggcggccc agatcac 17

<210> 268  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 268  
gacgtgggac ccgacg 16

<210> 269  
<211> 18

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 269  
gaggatgtac ggctgcga 18

<210> 270  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 270  
cctgaagaat gggaaggag 19

<210> 271  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 271  
cctccagagc atgtacgg 18

<210> 272  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 272  
gcgggtatgt ccagtacg 18

<210> 273  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 273  
ccgagtgaac ctgcgga 17

<210> 274  
<211> 17

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 274  
ctgcggaaac tgcgcgg 17

<210> 275  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 275  
ctgcgacgtg gggccc 16

<210> 276  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 276  
ggagggcctg tgcgtg 16

<210> 277  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 277  
gacacagaac tacaagcgc 19

<210> 278  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 278  
cacttcacg cagtgggc 18

<210> 279  
<211> 15

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 279  
gcccggtgcgg cggag 15

<210> 280  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 280  
gagcgaggac gggcttc 17

<210> 281  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 281  
ggagcagctg agagcct 17

<210> 282  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 282  
ctaggagcta tgggtgct 18

<210> 283  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 283  
ggacgacaca cagttcgt 18

<210> 284  
<211> 18

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 284  
gagagcccca cttcatcg 18

<210> 285  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 285  
gtgccatgtt cagcacga 18

<210> 286  
<211> 15  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 286  
ccgcgggagc cgtgg 15

<210> 287  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 287  
tgggctacct ggacgac 17

<210> 288  
<211> 15  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 288  
ctggggccgg acggg 15

<210> 289  
<211> 16

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 289  
cgtgtctctgg cccggc 16

<210> 290  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 290  
aggcacaggc tgaccga 17

<210> 291  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 291  
cgcggaacaag gcggct 16

<210> 292  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 292  
tgagatgggg gccatctt 18

<210> 293  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 293  
ggagtggctg cgagata 18

<210> 294  
<211> 18

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 294  
accatgaggt caccctga 18

<210> 295  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 295  
aacgggaaga agacgtg 18

<210> 296  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 296  
ataaccagtt cgctacga 19

<210> 297  
<211> 15  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 297  
cgggcgcggt gggtg 15

<210> 298  
<211> 15  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 298  
ggggagcccc gggcg 15

<210> 299  
<211> 17



<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 299  
tacaccgctg tgtcccg

17

<210> 300  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 300  
gcgagtccaa gagggga

17

<210> 301  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 301  
gggtggagaa ggagggg

17

<210> 302  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 302  
agaggatgta tggctgcg

18

<210> 303  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 303  
gcgcaagttg gaggcgg

17

<210> 304  
<211> 16

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 304  
cagcgcgcag aacccc

16

<210> 305  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 305  
ggctgcgtgc agcaaca

17

<210> 306  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 306  
tcccagccta ccatccc

17

<210> 307  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 307  
ctggagggac tgtgcgt

17

<210> 308  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 308  
ggagcaggac agagccta

18

<210> 309  
<211> 19

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 309  
cggctactat aaccagagc

19

<210> 310  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 310  
cctccagaat atgtatggc

19

<210> 311  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 311  
tcaccgctaa gatgtgtag

19

<210> 312  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 312  
agaggatggtt tggctgcg

18

<210> 313  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 313  
atgaccagtt cgcctacg

18

<210> 314  
<211> 16

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 314  
gggctgcaag agcccc 16

<210> 315  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 315  
gctctcaggt tgcgtgca 18

<210> 316  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 316  
ggcccgtacg gcggag 16

<210> 317  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 317  
ctggagaaca ggaagaaga 19

<210> 318  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 318  
ggagggcgcg tgcgtg 16

<210> 319  
<211> 18

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 319  
cctccagagc atgtatgg

18

<210> 320  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 320  
gagaacgggg agaagacg

18

<210> 321  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 321  
tcttgactg ccgcgg

16

<210> 322  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 322  
tggaccgcgg cggaca

16

<210> 323  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 323  
gcttcacgc agtgggc

17

<210> 324  
<211> 18

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 324  
agtggatgta tggctgcg 18

<210> 325  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 325  
cctacgacgt caaggatta 19

<210> 326  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 326  
ccgagtgggc ctgcgg 16

<210> 327  
<211> 19  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 327  
ggtatttctc cacatccgt 19

<210> 328  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 328  
agtggatggt tggctgcg 18

<210> 329  
<211> 18

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 329  
gaacgaggat ctgcgctc

18

<210> 330  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 330  
ccgcgggcat gaccag

16

<210> 331  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 331  
ccccgaactc tcctcct

17

<210> 332  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 332  
ccgcgggcat gaccag

16

<210> 333  
<211> 17  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 333  
ggagcagcag agagcct

17

<210> 334  
<211> 19

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 334  
ggctgttggt atgtgtagg 19

<210> 335  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 335  
tgtggtcgct gctgtgat 18

<210> 336  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 336  
ggagccctgc accctg 16

<210> 337  
<211> 16  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 337  
gacctggacc ggctcc 16

<210> 338  
<211> 18  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 338  
ctgagatgga agccgtct 18

<210> 339  
<211> 18



<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 339  
ctgtcctggt tgtcctag

18

<210> 340  
<211> 23  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 340  
aaacacgggc acctcagggg gat

23

<210> 341  
<211> 21  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 341  
ggcctgagtg tggttggaac g

21

<210> 342  
<211> 22  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 342  
ccagctcgta gttgtgtctg ca

22

<210> 343  
<211> 39  
<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 343  
aacgttcacc ttaggctgga ccatgtgtca acttatgcc

39

<210> 344  
<211> 17

<212> DNA  
<213> artificial sequence

<220>  
<223> probe for detection

<400> 344  
agaattacct ttccag

17

<210> 345  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 345  
agaattacgt ttccag

17

## SEQUENCE LISTING DP

<110> CANON KABUSHIKI KAISHA

<120> Probe set and method for identifying HLA allele

<130> G10003828DP

<150> JP2003-430557

<151> 2003-12-25

<160> 251

<170> PatentIn version 3.2

<210> 1

<211> 241

<212> DNA

<213> Homo sapiens

<400> 1

```
ccatgtgtca acctatgccg cgtttgtaca gacgcataga ccaacagggg agtttatgtt    60
tgaatttgat gaagatgaga tgttctatgt ggatctggac aagaaggaga ccgtctggca    120
tctggaggag ttggccaag ccttttcctt tgaggctcag ggcgggctgg ctaacattgc    180
tatattgaac aacaactga ataccttgat ccagcgttc aaccacactc aggccaccaa    240
c                                                                    241
```

<210> 2

<211> 222

<212> DNA

<213> Homo sapiens

<400> 2

```
gcgtttgtac agacgcatag accaacagga gagtttatgt ttgaattga tgaagatgag    60
atgttctatg tggatctgga caagaaggag accgtctggc atctggagga gtttgccaa    120
gccttttctt ttgaggctca gggcgggctg gctaacattg ctatattgaa caacaacttg    180
aataccttga tccagcgttc caaccacact caggccacca ac                        222
```

<210> 3

<211> 225

<212> DNA

<213> Homo sapiens

<400> 3

```
gccgcgtttg tacagacgca tagaccaaca ggggagtta tgtttgaatt tgatgacgat    60
gagatgttct atgtggatct ggacaagaag gagaccgtct ggcattctgga ggagtttggc    120
caagcctttt cctttgagge tcaggcgggg ctggctaaca ttgctatatt gaacaacaac    180
ttgaatacct tgatccagcg ttccaaccac actcaggcca ccaac                    225
```

<210> 4

<211> 225

<212> DNA

<213> Homo sapiens

<400> 4

```
gccgcgtttg tacagacgca tagaccaaca ggggagtta tgtttgaatt tgatgaagat    60
gagatgttct atgtggatct ggacaagaag gagaccgtct ggcattctgga ggagtttggc    120
```

caagcctttt cctttgagge tcaggcgagg ctggctaaca ttgctatatt gaacaacaac 180  
ttgaatacct tgatccagcg ttccaaccac actcaggccg ccaat 225

<210> 5  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 5  
ccatgtgtca acttatgccg cgtttgtaca gacgcataga ccaacagggg agtttatgtt 60  
tgaatttgat gaagatgagc agttctatgt ggatctggat aaaaaggaga ccgtctggca 120  
tctggaggag ttggccaag ccttttcctt tgaggctcag ggcgggctgg ctaacattgc 180  
tatattgaac aacaactga ataccttgat ccagcgttcc aaccacactc aggccaccaa 240  
c 241

<210> 6  
<211> 240  
<212> DNA  
<213> Homo sapiens

<400> 6  
catgtgtcaa cttatgccgc gtttgtacag acgcatagac caacagggga gtttatgttt 60  
gaatttgat aagatgagat gttctatgtg gatctggaca agaaggagac cgtctggcat 120  
ctggaggagt ttggccaaac cttttcctt gaggctcagg ggcgggctgg taacattgct 180  
atattgaaca acaacttgaa taccttgatc cagcgttcca accacactca ggccaccaac 240

<210> 7  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 7  
ccatgtgtca acttatgccg cgtttgtaca gacgcataga ccaacagggg agtttatgtt 60  
tgaatttgat gacgatgaga tggtctatgt ggatctggac aagaaggaga ccgtctggca 120  
tctggaggag ttggccgag ccttttcctt tgaggctcag ggcgggctgg ctaacattgc 180  
tatattgaac aacaactga ataccttgat ccagcgttcc aaccacactc aggccaccaa 240  
c 241

<210> 8  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 8  
ccatgtgtca acttatgccg cgtttgtaca gacccataga ccaacagggg agtttatgtt 60  
tgaatttgat gaagatgagc agttctatgt ggatctggat aaaaaggaga ccgtctggca 120  
tctggaggag ttggccgag ccttttcctt tgaggctcag ggcgggctgg ctaacattgc 180  
tatattgaac aacaactga ataccttgat ccagcgttcc aaccacactc aggccgcaa 240  
t 241

<210> 9  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 9

ccatgtgtca acttatgccg cgtttgtaca gacgcataga ccaacagggg agtttatgtt 60  
 tgaatttgat gaagatgagc agttctatgt ggatctggat aaaaaggaga ccgtctggca 120  
 tctggaggag ttggccgag ccttttcctt tgaggctcag ggcgggctgg ctaacattgc 180  
 tatattgaac aacaactga ataccttgat ccagcgttcc aaccacactc aggccgcca 240  
 t 241

<210> 10  
 <211> 241  
 <212> DNA  
 <213> Homo sapiens

<400> 10ccatgtgtca acttatgccg cgtttgtaca gacgcataga ccaacagggg agtttatgtt 60  
 tgaatttgat gaagatgagc agttctatgt ggatctggac aagaaggaga ccgtctggca 120  
 tctggaggag ttggccgag ccttttcctt tgaggctcag ggcgggctgg ctaacattgc 180  
 tatattgaac aacaactga ataccttgat ccagcgttcc aaccacactc aggccgcca 240  
 t 241

<210> 11  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

<400> 11  
 gcgtttgtac aaacccatag accaacaggg gagtttatgt ttgaattga tgaagatgag 60  
 cagttctatg tgatctgga taaaaaggag accgtctggc atctggagga gtttgccga 120  
 gcctttcct ttgaggetca ggcgggctg gtaacattg ctatattgaa caacaactg 180  
 aatacctga tccagcgtc caaccacact cagccgcca at 222

<210> 12  
 <211> 241  
 <212> DNA  
 <213> Homo sapiens

<400> 12  
 ccatgtgtca acttatgccg cgtttgtaca gacgcataga ccaacaggag agtttatgtt 60  
 tgaatttgat gaagatgagc agttctatgt ggatctggac aagaaggaga ccgtctggca 120  
 tctggaggag ttggccgag ccttttcctt tgaggctcag ggcgggctgg ctaacattgc 180  
 tatattgaac aacaactga ataccttgat ccagcgttcc aaccacactc aggccgcca 240  
 t 241

<210> 13  
 <211> 241  
 <212> DNA  
 <213> Homo sapiens

<400> 13  
 ccatgtgtca acttatgccg cgtttgtaca gacccataga ccaacagggg agtttatgtt 60  
 tgaatttgat gaagatgagc agttctatgt ggatctggat aagaaggaga ccgtctggca 120  
 tctggaggag ttggccgag ccttttcctt tgaggctcag ggcgggctgg ctaacattgc 180  
 tatattgaac aacaactga ataccttgat ccagcgttcc aaccacactc aggccgcca 240  
 t 241

<210> 14  
 <211> 232  
 <212> DNA

<213> Homo sapiens

<400> 14

aacttatgcc atgtttgtac agacccatag accaacagga gagtttatgt ttgaatttga	60
tgaagatgag cagttctatg tggatctgga taagaaggag accgtctggc atctggagga	120
gtttggccga gccttttctt ttgaggtca gggcgggtg gctaacattg ctatattgaa	180
caacaacttg aataccttga tccagcgttc caaccacact caggccgcca at	232

<210> 15

<211> 241

<212> DNA

<213> Homo sapiens

<400> 15

ccatgtgtca acttatgcc tgtttgtaca gacccataga ccaacaggag agtttatgtt	60
tgaatttgat gaagatgagc agttctatgt ggtctggac aagaaggaga ccgtctggca	120
tctggaggag tttggccgag ccttttctt tgaggtcag ggcgggtg ctaacattgc	180
tatattgaac aacaacttga ataccttgat ccagcgttcc aaccacactc aggccgcca	240
t	241

<210> 16

<211> 239

<212> DNA

<213> Homo sapiens

<400> 16

atgtgtcaac ttatgccatg tttgtacaga cccatagacc aacaggggag tttatgtttg	60
aatttgatga agatgagcag ttctatgttg atctggacaa gaaggagacc gtctggcatc	120
tggaggagtt tggccgagcc ttttctttg aggtcaggg cgggctggct aacattgcta	180
tattgaacaa caacttgaat acctgatcc agcgttcaa ccacactcag gccccaat	239

<210> 17

<211> 241

<212> DNA

<213> Homo sapiens

<400> 17

ccatgtgtca acttatgccg cgtttgtaca gacccataga ccaacagggg agtttatgtt	60
tgaatttgat gaagatgaga tgttctatgt ggtctggac aagaaggaga ccgtctggca	120
tctggaggag tttggccgag ccttttctt tgaggtcag ggcgggtg ctaacattgc	180
tatattgaac aacaacttga ataccttgat ccagcgttcc aaccacactc aggccgcca	240
t	241

<210> 18

<211> 225

<212> DNA

<213> Homo sapiens

<400> 18

gccatgtttg tacagacca tagaccaaca ggggagttta tgtttgaatt tgatgaagat	60
gagatgttct atgtggatct ggacaagaag gagaccgtct ggcatttga ggagtttggc	120
caagcctttt cctttgaggc tcaggcggg ctggctaaca ttgctatc gaacaacaac	180
ttgaatacct tgatccagcg ttccaaccac actcaggcca ccaac	225

<210> 19

<211> 241  
 <212> DNA  
 <213> Homo sapiens

<400> 19  
 ccatgtgtca acttatgcc a tgtttgtaca gacccataga ccaacagggg agtttatgtt 60  
 tgaatttgat gaagatgaga tgttctatgt ggatctggac aagaaggaga ccgtctggca 120  
 tctggaggag ttggccaag ccttttcctt tgaggctcag ggcgggctgg ctaacattgc 180  
 tatattgaac aacaacttga ataccttgat ccagcgttc aaccacactc aggccaccaa 240  
 c 241

<210> 20  
 <211> 225  
 <212> DNA  
 <213> Homo sapiens

<400> 20gccgcgtttg tacagacgca tagaacaaca ggagagtta tgtttgagtt tgatgatgat 60  
 gagatgttct atgtggatct ggacaagaag gagaccgtct ggcatctgga ggagtttggc 120  
 cgagcctttt cctttgaggc tcaggcgagg ctggttaaca ttgctatatt gaacaacaac 180  
 ttgaatatcg ctatccagcg ttccaaccac actcaggccg ccaat 225

<210> 21  
 <211> 267  
 <212> DNA  
 <213> Homo sapiens

<400> 21  
 agaattacgt gtaccaggga cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60  
 tggagagata catctacaac cgggaggagt acgcgcgtt cgacagcgac gtgggggagt 120  
 tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
 tcctggagga gaagcgggca gtgccggaca ggtatgcag acacaactac gagctggagc 240  
 aggccgtgac cctgcagcgc cgagtcc 267

<210> 22  
 <211> 261  
 <212> DNA  
 <213> Homo sapiens

<400> 22  
 aattacgtgt accagggacg gcaggaatgc tacgcgttta atgggacaca gcgttcctg 60  
 gagagataca tctacaaccg ggaggagtac gcgcgttcg acagcgacgt gggagagttc 120  
 cgggcggtga cggagctggg gggcctgct gcggagtact ggaacagcca gaaggacatc 180  
 ctggaggaga agcgggcagt gccggacagg gtatgcagac acaactacga gctggacgag 240  
 gccgtgacct tgcagcgccg a 261

<210> 23  
 <211> 267  
 <212> DNA  
 <213> Homo sapiens

<400> 23  
 agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60  
 tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt 120  
 tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
 tcctggagga ggagcgggca gtgccggaca ggtatgcag acacaactac gagctgggagc 240  
 ggcccatgac cctgcagcgc cgagtcc 267

<210> 24  
<211> 267  
<212> DNA  
<213> Homo sapiens

<400> 24  
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
tcttgaggga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
ggcccatgac cctgcagcgc cgagtc 267

<210> 25  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 25  
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg acgaggagta ctggaacagc cagaaggaca 180  
tcttgaggga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
ggcccatgac cctgcagcgc cgagtc 264

<210> 26  
<211> 263  
<212> DNA  
<213> Homo sapiens

<400> 26  
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
tcttgaggga ggagcgggca gttccggaca ggatgtgcag acacaactac gagctgggcg 240  
ggcccatgac cctgcagcgc cga 263

<210> 27  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 27  
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
tggagagata catctacaac cgggaagagt tcgtgcgctt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
tcttgaggga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
ggcccatgac cctgcagcgc cgagtc 264

<210> 28  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 28  
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
tggagagata catctacaac cgggaggagt ttgtgcgctt cgacagcgac gtgggggagt 120



tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca	180
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg	240
ggcccatgac cctgcagcgc cgag	264

<210> 29  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 29	
agaattacct ttccagga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca	180
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg	240
ggcccatgac cctgcagcgc cgag	264

<210> 30  
 <211> 267  
 <212> DNA  
 <213> Homo sapiens

<400> 30	
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc	180
tcctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctgggac	240
aggccgtgac cctgcagcgc cgagtcc	267

<210> 31  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 31	
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc	180
tcctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctgggac	240
aggccgtgac cctacagcgc cgag	264

<210> 32  
 <211> 267  
 <212> DNA  
 <213> Homo sapiens

<400> 32	
agaattacct ttccagga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgcgcgctt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca	180
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg	240
ggcccatgac cctgcagcgc cgagtcc	267

<210> 33  
 <211> 267  
 <212> DNA

<213> Homo sapiens

<400> 33

agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca	180
tctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg	240
ggcccatgac cctgcagcgc cgagtc	267

<210> 34

<211> 264

<212> DNA

<213> Homo sapiens

<400> 34

agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca	180
tctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

<210> 35

<211> 257

<212> DNA

<213> Homo sapiens

<400> 35

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc	180
tctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg	240
aggccgtgac cctgcag	257

<210> 36

<211> 249

<212> DNA

<213> Homo sapiens

<400> 36

ctttccagg gacggcagga atgctacgcg ttaatggga cacagcgctt cctggagaga	60
tacatctaca accgggagga gttcgtgcgc ttgcacagcg acgtggggga gttccgggcg	120
gtgacggagc tggggcggcc tgataggag tactggaaca gccagaagga catcctggag	180
gaggagcggg cagtccgga cagggtatgc agacacaact acgagctgga cgaggccgtg	240
accctgcag	249

<210> 37

<211> 264

<212> DNA

<213> Homo sapiens

<400> 37

agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggaca	180
tctggagga ggagcgggca gtgccggaca gggatgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

<210> 38  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 38  
 agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt 120  
 tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
 tcctggagga ggagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg 240  
 aggccgtgac cctgcagcgc cgag 264

<210> 39  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 39  
 gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt cctggagaga 60  
 tacatctaca accggcagga gtacgcgcgc ttcgacagcg acgtgggaga gttccgggcg 120  
 gtgacggagc tggggcggcc tgctgcggag tactggaaca gccagaagga cctcctggag 180  
 gagaggcggg cagtgccgga caggatgtgc agacacaact acgagctgga cgaggccgtg 240  
 accctgcag 249

<210> 40  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 40  
 agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac aggcaggagt acgcgcgctt cgacagcgac gtgggagagt 120  
 tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggacc 180  
 tcctggagga gaggcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
 aggccgtgac cctgcag 257

<210> 41  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 41  
 agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac gtgggggagt 120  
 tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
 tcctggagga ggagcgggca gtgccggaca ggatatgcag acacaactac gagctggacg 240  
 aggccgtgac cctgcag 257

<210> 42  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 42  
 agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt 120

tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc 180  
tcctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg 240  
aggccgtgac cctgcag 257

<210> 43  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 43  
agaattacgt gtaccagga cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60  
tggagagata catctacaac cggcaggagt acgcgcgtt cgacagcgac gtgggagagt 120  
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggacc 180  
tcctggagga gagcgggca gtgccggaca ggatgtgcag acacaactac gagctggtcg 240  
ggcccatgac cctgcagcgc cgag 264

<210> 44  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 44  
agaattacct ttccagga cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60  
tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc cgag 264

<210> 45  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 45  
agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60  
tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggaca 180  
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc cgag 264

<210> 46  
<211> 249  
<212> DNA  
<213> Homo sapiens

<400> 46  
gtgtaccagg gacggcagga atgctacgcg ttaatggga cacagcgtt cctggagaga 60  
tacatctaca accgggagga gttcgtgcgc ttcacagcg acgtggggga gttccgggcg 120  
gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga catcctggag 180  
gagaagcggg cagtgccgga caggatgtgc agacacaact acgagctggt cgggccccatg 240  
accctgcag 249

<210> 47  
<211> 264  
<212> DNA

<213> Homo sapiens

<400> 47

```
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtggggggagt 120
tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca 180
tcttggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240
aggccgtgac cctgcagcgc cgag 264
```

<210> 48

<211> 264

<212> DNA

<213> Homo sapiens

<400> 48

```
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtggggggagt 120
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc 180
tcttggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240
aggccgtgac cctgcagcgc cgag 264
```

<210> 49

<211> 263

<212> DNA

<213> Homo sapiens

<400> 49

```
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtggggggagt 120
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc 180
tcttggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240
aggccgtgac cctgcagcgt cga 263
```

<210> 50

<211> 264

<212> DNA

<213> Homo sapiens

<400> 50

```
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60
tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac gtggggggagt 120
tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca 180
tcttggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240
aggccgtgac cctgcagcgc cgag 264
```

<210> 51

<211> 264

<212> DNA

<213> Homo sapiens

<400> 51

```
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60
tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac gtggggggagt 120
tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca 180
tcttggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240
aggccgtgac cctgcagcgc cgag 264
```

<210> 52  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 52  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtggggggagt 120  
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
ggcccatgac cctgcagcgc cgag 264

<210> 53  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 53  
agaattacct tttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtggggggagt 120  
tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca 180  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
ggcccatgac cctgcagcgc cgag 264

<210> 54  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 54  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtggggggagt 120  
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggacc 180  
tcctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc cgag 264

<210> 55  
<211> 256  
<212> DNA  
<213> Homo sapiens

<400> 55  
gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt cctggagaga 60  
tacatctaca accgggagga gtacgcgcgc ttcgacagcg acgtgggaga gttccgggcg 120  
gtgacggagc tggggcggcc tgctcggag tactggaaca gccagaagga catcctggag 180  
gagaagcggg cagtgccgga cagagtatgc agacacaact acgagctgga cgaggccgtg 240  
acctgcagc gccgag 256

<210> 56  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 56  
gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt cctggagaga 60  
tacatctaca accgggagga gtacgcgcgc ttcgacagcg acgtggggga gttccgggcg 120

gtgacggagc tggggcgccc tgctgcggag tactggaaca gccagaagga catcctggag 180  
 gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctgga cgaggccgtg 240  
 accctgcagc gccga 255

<210> 57  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 57  
 agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt acgcgcgtt cgacagcgac gtggggggagt 120  
 tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
 tcttggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
 aggccgtgac cctgcagcgc cgag 264

<210> 58  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 58  
 agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt tcgcgcgtt cgacagcgac gtggggggagt 120  
 tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggacc 180  
 tcttggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggtcg 240  
 ggcccatgac cctgcagcgc cgag 264

<210> 59  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 59  
 agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtggggggagt 120  
 tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc 180  
 tcttggagga ggagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg 240  
 aggccgtgac cctgcagcgc cgag 264

<210> 60  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 60  
 agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtggggggagt 120  
 tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca 180  
 tcttggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
 aggccgtgac cctgcag 257

<210> 61  
 <211> 264  
 <212> DNA

<213> Homo sapiens

<400> 61

agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgcgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggacc	180
tctggagga gaagcgggca ttgccggaca ggatgtgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

<210> 62

<211> 264

<212> DNA

<213> Homo sapiens

<400> 62

agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggtgta ctggaacagc cagaaggaca	180
tctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg	240
ggcccatgac cctgcagcgc cgag	264

<210> 63

<211> 257

<212> DNA

<213> Homo sapiens

<400> 63

agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgcgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca	180
tctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg	240
ggcccatgac cctgcag	257

<210> 64

<211> 257

<212> DNA

<213> Homo sapiens

<400> 64

agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagc tcgtgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggacc	180
tctggagga gaagcgggca ttgccggaca ggatgtgcag acacaactac gagctggtcg	240
ggcccatgac cctgcag	257

<210> 65

<211> 257

<212> DNA

<213> Homo sapiens

<400> 65

agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggaca	180
tctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg	240
aggccgtgac cctgcag	257



<210> 66  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 66  
 agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac gtggggggagt 120  
 tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca 180  
 tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
 aggccgtgac cctgcagcgc cgag 264

<210> 67  
 <211> 256  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
 gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt cctggagaga 60  
 tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga gttccgggcg 120  
 gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga catcctggag 180  
 gaggagcggg cagtgccgga cagggtatgc agacacaact acgagctgga cgaggccgtg 240  
 accctgcagc gccgag 256

<210> 68  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
 cttttccagg gacggcagga atgctacccg tttaatggga cacagcgctt cctggagaga 60  
 tacatctaca accgggagga gtcctgcgc ttcgacagcg acgtggggga gttccgggcg 120  
 gtgacggagc tggggcggcc tgaggcggag tactggaaca gccagaagga catcctggag 180  
 gagaagcggg cagtgccgga caggatgtgc agacacaact acgagctgga cgaggccgtg 240  
 accctgcag 249

<210> 69  
 <211> 263  
 <212> DNA  
 <213> Homo sapiens

<400> 69  
 agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac gtggggggagt 120  
 tccgggcggt gacggagctg gggcggcctg ctgccgagta ctggaacagc cagaaggaca 180  
 tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggag 240  
 ggcccatgac cctgcagcgc cga 263

<210> 70  
 <211> 263  
 <212> DNA  
 <213> Homo sapiens

<400> 70  
 agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac gtggggggagt 120

tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
tcttgaggga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggctg 240  
ggcccatgac cctgcagcgc cga 263

<210> 71  
<211> 261  
<212> DNA  
<213> Homo sapiens

<400> 71  
aattaccttt tccagggacg gcaggaatgc tacgcgttta atgggacaca gcgttcctg 60  
gagagataca tctacaaccg ggaggagttc gtgcgcttcg acagcgacgt gggggagttc 120  
cgggcggtga cggagctggg gggcctgat gaggagtact ggaacagcca gaaggacttc 180  
ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga gctgggcggg 240  
ccatgaccc tgcagcgcg a 261

<210> 72  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 72  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60  
tgagagata catctacaac cgggaggagc tcgtgcgctt cgacagcgac gtgggggagt 120  
tccggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc 180  
tcttgaggga ggagcgggca gtgccggaca gggatgcag acacaactac gagctggacg 240  
aggcctgac cctgcagcgc cgag 264

<210> 73  
<211> 249  
<212> DNA  
<213> Homo sapiens

<400> 73  
gtgcaccagt tacggcagga atgctacgcg tttaatggga cacagcgtt cctggagaga 60  
tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga gttccgggcg 120  
gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga cctcctggag 180  
gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctgga cgaggccgtg 240  
acctgcag 249

<210> 74  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 74  
agaattacct ttccagga cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60  
tgagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt 120  
tccggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggaca 180  
tcttgaggga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
ggcccatgac cctgcagcgc cgag 264

<210> 75  
<211> 264  
<212> DNA

<213> Homo sapiens

<400> 75

```
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtgggggagt 120
tccgggcggt gacggagctg gggcggcctg aggcgaggta ctggaacagc cagaaggaca 180
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240
ggcccatgac cctgcagcgc cgag 264
```

<210> 76

<211> 255

<212> DNA

<213> Homo sapiens

<400> 76

```
aattaccttt tccagggaac gcaggaatgc tacgcgttta atgggacaca gcgttctctg 60
gagagataca tctacaaccg ggaggagctc gtgcgcttcg acagcgacgt gggggagttc 120
cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca gaaggacatc 180
ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga gctgggcggg 240
cccatgaccc tgcag 255
```

<210> 77

<211> 255

<212> DNA

<213> Homo sapiens

<400> 77

```
aattaccttt tccagggaac gcaggaatgc tacgcgttta atgggacaca gcgttctctg 60
gagagataca tctacaaccg ggaggagtac gcgcgcttcg acagcgacgt gggggagttc 120
cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca gaaggacatc 180
ctggaggaga agcgggcagt gccggacagg atgtgcagac acaactacga gctgggcggg 240
cccatgaccc tgcag 255
```

<210> 78

<211> 255

<212> DNA

<213> Homo sapiens

<400> 78

```
aattacgtgt accagggaac gcaggaatgc tacgcgttta atgggacaca gcgttctctg 60
gagagataca tctacaaccg ggaggagttc gtgcgcttcg acagcgacgt gggggagttc 120
cgggcggtga cggagctggg gcggcctgat gaggactact ggaacagcca gaaggacctc 180
ctggaggaga agcgggcagt gccggacagg gtatgcagac acaactacga gctggacgag 240
gccgtgaccc tgcag 255
```

<210> 79

<211> 264

<212> DNA

<213> Homo sapiens

<400> 79

```
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60
tggagagata catctacaac cgggaggagt tcgcgcgctt cgacagcgac gtgggggagt 120
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240
ggcccatgac cctgcagcgc cgag 264
```

<210> 80  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 80  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtggggggagt 120  
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggacc 180  
tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac gagctggacg 240  
aggccgtgac cctgcag 257

<210> 81  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 81  
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
tggagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac gtggggggagt 120  
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggtcg 240  
ggcccatgac cctgcag 257

<210> 82  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 82  
agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtggggggagt 120  
tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca 180  
tcctggagga ggagcgggca gtgccggaca gggatatgcag acacaactac gagctggacg 240  
aggccgtgac cctgcag 257

<210> 83  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 83  
agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtggggggagt 120  
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
aggccgtgac cctgcag 257

<210> 84  
<211> 249  
<212> DNA  
<213> Homo sapiens

<400> 84  
gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt cctggagaga 60  
tatactaca accgggagga gttcgcgcgc ttcacagcg acgtggggga gttccgggcg 120

gtgacggagc tggggcggcc tgctgcggag tactggaaca gccagaagga cctcctggag	180
gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctgga cgaggccgtg	240
accctgcag	249

<210> 85  
 <211> 238  
 <212> DNA  
 <213> Homo sapiens

<400> 85	
cttttcagg gacggcagga atgctacgcg tttaatggga cacagcgctt cctggagaga	60
tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga gttccgggcg	120
gtgacggagc tggggcggcc tgatgaggac tactggaaca gccagaagga cctcctggag	180
gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctgga cgaggccg	238

<210> 86  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<400> 86	
aattactgac accagttacg gcaggaatgc tacgcgttta atgggacaca gcgttctctg	60
gagagataca tctacaaccg ggaggagctc gtgcgcttcg acagcgacgt gggggagttc	120
cgggcgggtga cggagctggg gcggcctgct gcggagtact ggaacagcca gaaggacatc	180
ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga gctggacgag	240
gccgtgacct tgcag	255

<210> 87  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 87	
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt	120
tccgggcggg gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggacc	180
tcttgaggga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg	240
ggcccatgac cctgcag	257

<210> 88  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 88	
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt	120
tccgggcggg gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca	180
acctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg	240
ggcccatgac cctgcag	257

<210> 89  
 <211> 260  
 <212> DNA  
 <213> Homo sapiens

<400> 89  
agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60  
tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc 180  
tcctgtagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc 260

<210> 90  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 90  
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60  
tggagagata catctacaac cgggaggagc tcgtgcgtt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggtcg 240  
ggcccatgac cctgcag 257

<210> 91  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 91  
aattaccttt tccagggacg gcaggaatgc tacgcgttta atgggacaca gcgcttctg 60  
gagagataca tctacaaccg ggaggagctc gtgcgcttcg acagcgacgt gggggagttc 120  
cgggcggtga cggagctggg gggcctgct gcggagtact ggaacagcca gaaggacatc 180  
ctggaggaga agcgggcagt gccggacagg atgtgcagac acaactacga gctggacgag 240  
gccgtgaccc tgcag 255

<210> 92  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 92  
aattaagtgt accagttacg gcaggaatgc tacgcgttta atgggacaca gcgcttctg 60  
gagagataca tctacaaccg ggaggagttc gtgcgcttcg acagcgacgt gggggagttc 120  
cgggcggtga cggagctggg gggcctgat gaggactact ggaacagcca gaaggacctc 180  
ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga gctggacgag 240  
gccgtgaccc tgcag 255

<210> 93  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 93  
agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60  
tggagagata catctacaac cgggaggagt acgcgcgtt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
tcctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc cgag 264

<210> 94  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 94  
 agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt tcgcgcgtt cgacagcgac gtgggggagt 120  
 tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
 tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
 ggcccatgac cctgcagcgc cgag 264

<210> 95  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 95  
 agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt 120  
 tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggacc 180  
 tcctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg 240  
 aggccgtgac cctgcagcgc cgag 264

<210> 96  
 <211> 263  
 <212> DNA  
 <213> Homo sapiens

<400> 96  
 agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt 120  
 tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
 tcctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg 240  
 aggccgtgac cctgcagcgc cga 263

<210> 97  
 <211> 251  
 <212> DNA  
 <213> Homo sapiens

<400> 97  
 agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt 120  
 tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc 180  
 tcctggagga gaggcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
 aggccgtgac c 251

<210> 98  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<400> 98  
 aattacgtgg accagttacg gcaggaatgc tacgcgttta atgggacaca gcgcttcctg 60  
 gagagataca tctacaaccg ggaggagtgc gtgcgcttcg acagcgacgt gggggagttc 120

cgggcggtga cggagctggg gcggcctgat gaggactact ggaacagcca gaaggacctc 180  
 ctggaggaga agcgggcagt gccggacagg gtatgcagac acaactacga gctggacgag 240  
 gccgtgacct tgcag 255

<210> 99  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<400> 99  
 aattaccttt tccagggacg gcaggaatgc tacgcgttta atgggacaca gcgcttcctg 60  
 gagagataca tctacaaccg ggaggagtgc gtgcgcttcg acagcgacgt gggggagtgc 120  
 cgggcggtga cggagctggg gcggcctgct gcggagtact ggaacagcca gaaggacatc 180  
 ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga gctgggcggg 240  
 cccatgacct tgcag 255

<210> 100  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<400> 100  
 aattaccttt tccagggacg gcaggaatgc tacgcgttta atgggacaca gcgcttcctg 60  
 gagagataca tctacaaccg ggaggagtgc gcgcgcttcg acagcgacgt gggggagtgc 120  
 cgggcggtga cggagctggg gcggcctgct gcggagtact ggaacagcca gaaggacctc 180  
 ctggaggaga agcgggcagt gccggacagg atgtgcagac acaactacga gctgggcggg 240  
 cccatgacct tgcag 255

<210> 101  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<400> 101  
 aattaccttt tccagggacg gcaggaatgc tacgcgttta atgggacaca gcgcttcctg 60  
 gagagataca tctacaaccg ggaggagtgc gtgcgcttcg acagcgacgt gggggagtgc 120  
 cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca gaaggacctc 180  
 ctggaggaga agcgggcagt gccggacagg gtatgcagac acaactacga gctgggcggg 240  
 cccatgacct tgcag 255

<210> 102  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 102  
 gtgtaccagt tacggcagga atgctacgcg tttaatggga cacagcgctt cctggagaga 60  
 tacatctaca accggcagga gtacgcgcgc ttcgacagcg acgtgggaga gttccgggcg 120  
 gtgacggagc tggggcggcc tgcgcggag tactggaaca gccagaagga cctcctggag 180  
 gagaggcggg cagtgccgga caggatgtgc agacacaact acgagctggt cgggcccattg 240  
 accctgcag 249

<210> 103  
 <211> 249  
 <212> DNA



<213> Homo sapiens

<400> 103

cttttccagg gacggcagga atgctacgcg tttaatggga cacagcgctt cctggagaga	60
tacatctaca accgggagga gttcgtgcgc ttcgacagcg acgtggggga gttccgggcg	120
gtgacggagc tggggcgcc tgatgaggag tactggaaca gccagaagga catcctggag	180
gagaagcggg cagtgccgga cagggatatgc agacacaact acgagctggg cgggcccatg	240
acctgcag	249

<210> 104

<211> 257

<212> DNA

<213> Homo sapiens

<400> 104

agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgcgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc	180
tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac gagctggacg	240
aggccgtgac cctgcag	257

<210> 105

<211> 264

<212> DNA

<213> Homo sapiens

<400> 105

agaattacct ttccagga ctgcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca	180
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg	240
ggcccatgac cctgcagcgc cgag	264

<210> 106

<211> 264

<212> DNA

<213> Homo sapiens

<400> 106

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc	180
tcctggagga gaagcgggca gtgctggaca gggatatgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

<210> 107

<211> 264

<212> DNA

<213> Homo sapiens

<400> 107

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca	180
tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

<210> 108  
 <211> 251  
 <212> DNA  
 <213> Homo sapiens

<400> 108  
 agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtggggggagt 120  
 tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggaca 180  
 tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
 ggcccatgac c 251

<210> 109  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 109  
 agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtggggggagt 120  
 tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
 tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
 ggcccatgac cctgcagcgc cgag 264

<210> 110<211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 110agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtggggggagt 120  
 tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
 tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
 ggcccatgac cctgcagcgc cgag 264

<210> 111  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 111  
 agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtggggggagt 120  
 tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggact 180  
 tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
 ggcccatgac cctgcagcgc cgag 264

<210> 112  
 <211> 263  
 <212> DNA  
 <213> Homo sapiens

<400> 112  
 agaattacct ttccaggga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
 tggagagata catctacaac cgggaggagt tcgtgcgctt cgacagcgac gtggggggagt 120  
 tccgggcggt gacggagctg gggcggcctg aggaggagta ctggaacagc cagaaggaca 180  
 tcctggagga gaagcgggca gtgccggaca gggatgtgcag acacaactac gagctggagc 240

aggccgtgac cctgcagcgc cga

263

&lt;210&gt; 113

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 113

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60  
tggagagata catctacaac cgggaggagt acgcgcgtt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
tcttgaggga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcac cgag 264

&lt;210&gt; 114

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 114

gaattacgtg caccagttac ggcaggaatg ctacgcgtt aatgggacac agcgttctc 60  
ggagagata atctacaacc gggaggagt ctgcgcgtt cgacagcgac tgggggagt 120  
ccgggcggtg acggagctgg ggcggcctga tgaggactac tggaacagcc agaaggacat 180  
cctggaggag gagcgggcag tgccggacag gatgtgcaga cacaactac agctgggcgg 240  
gcccatgacc ctgcagccc ga 262

&lt;210&gt; 115

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 115

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60  
tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggacc 180  
tcttgaggga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc cgag 264

&lt;210&gt; 116

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 116

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgttcc 60  
tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggaca 180  
tcttgaggga ggagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc cgag 264

&lt;210&gt; 117

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

agaattacgt gtaccagga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt acgcgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca	180
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

&lt;210&gt; 118

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

agaattacgt gtaccagga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgcgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca	180
tcctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

&lt;210&gt; 119

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 119

agaattacgt gcaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc	180
tcctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

&lt;210&gt; 120&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 120agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgcgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc	180
tcctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

&lt;210&gt; 121

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 121

agaattacgt gtaccagtta cggcaggaat gctacgcgtt taatgggaca cagcgcttcc	60
tggagagata catctacaac cgggaggagt tcgtgcgtt cgacagcgac gtgggggagt	120
tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca	180
tcctggagga ggagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

&lt;210&gt; 122

&lt;211&gt; 264

<212> DNA  
<213> Homo sapiens

<400> 122  
agaattacct ttccagga cggcaggaat gctacgcgtt taatgggaca cagcgcttcc 60  
tgagagata catctacaac cgggaggagt acgcgcgctt cgacagcgac gtgggggagt 120  
tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaagcaca 180  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
ggcccatgac cctgcagcgc cgag 264

<210> 123  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 123  
acgcatagac caacaggg 18

<210> 124  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 124  
agtttatgtt tgaatttgat gaa 23

<210> 125  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 125  
tctggaggag tttggcca 18

<210> 126  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 126  
gacgcataga ccaacagga 19

<210> 127  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 127  
gtttatgtt gaatttgatg ac 22

<210> 128  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 128 cacactcagg ccgccaat	18
<210> 129 <211> 21 <212> DNA <213> Homo sapiens	
<400> 129 ttctatgtgg atctggataa a	21
<210> 130 <211> 19 <212> DNA <213> Homo sapiens	
<400> 130 ctggaggagt ttggccaaa	19
<210> 131 <211> 17 <212> DNA <213> Homo sapiens	
<400> 131 ctggaggagt ttggccg	17
<210> 132 <211> 18 <212> DNA <213> Homo sapiens	
<400> 132 gccgcgtttg tacagacc	18
<210> 133 <211> 21 <212> DNA <213> Homo sapiens	
<400> 133 tgaatttgat gaagatgagc a	21
<210> 134 <211> 20<212> DNA <213> Homo sapiens	
<400> 134 agttctatgt ggatctggat	20
<210> 135 <211> 19 <212> DNA	

<213> Homo sapiens

<400> 135

gacccataga ccaacagga

19

<210> 136

<211> 19

<212> DNA

<213> Homo sapiens

<400> 136

tgccatgttt gtacagacc

19

<210> 137

<211> 19

<212> DNA

<213> Homo sapiens

<400> 137

atgtgtcaac ttatgcat

19

<210> 138

<211> 20

<212> DNA

<213> Homo sapiens

<400> 138

ctggctaaca ttgctatata

20

<210> 139

<211> 20<212> DNA

<213> Homo sapiens

<400> 139

catgtgtcaa cttatgcat

20

<210> 140

<211> 21

<212> DNA

<213> Homo sapiens

<400> 140

aacaacaact tgaatatcgc t

21

<210> 141

<211> 16

<212> DNA

<213> Homo sapiens

<400> 141

gcagtgccgg acaggg

16

<210> 142

<211> 17

<212> DNA

<213> Homo sapiens

<400> 142

cagtgccgga cagggtg

17

<210> 143

<211> 17

<212> DNA

<213> Homo sapiens

<400> 143

tcgacagcga cgtggga

17

<210> 144

<211> 18

<212> DNA

<213> Homo sapiens

<400> 144

caaccgggag gagttcgt

18

<210> 145

<211> 17

<212> DNA

<213> Homo sapiens

<400> 145

ctggggcggc ctgatga

17

<210> 146

<211> 17

<212> DNA

<213> Homo sapiens

<400> 146

ggacatcctg gaggagg

17

<210> 147

<211> 17

<212> DNA

<213> Homo sapiens

<400> 147

cagtgccgga caggatg

17

<210> 148

<211> 18

<212> DNA

<213> Homo sapiens

<400> 148

acacaactac gagctggg

18



<210> 149  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 149  
gctggggcgg cctgac 16

<210> 150  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 150  
aggaggagcg ggcagtt 17

<210> 151  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 151  
gatacatcta caaccgggaa 20

<210> 152  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 152  
ctacaaccgg gaggagttt 19

<210> 153  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 153  
ctacaaccgg gaggagc 17

<210> 154  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 154  
gctggggcgg cctgag 16

<210> 155  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 155  
gagctgggcg ggccca 16

<210> 156  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 156  
agaattacgt gtaccagtt 19

<210> 157  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 157  
ggcggcctga tgaggac 17

<210> 158  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 158  
ggaacagcca gaaggacc 18

<210> 159  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 159  
acgaggccgt gacccta 17

<210> 160  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 160  
ctacaaccgg gagtagtt 18

<210> 161  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 161  
aaccgggagg agctcgt 17

<210> 162  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 162

ggacctcctg gaggagg

17

<210> 163  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 163  
agaattacgt gcaccagt

19

<210> 164  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 164  
agatacatct acaaccggc

19

<210> 165  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 165  
ggagagatac atctacaaca

20

<210> 166  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 166  
ggcagtgccg gacagga

17

<210> 167  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 167  
gagctggtcg ggccca

16

<210> 168  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 168  
gacacaacta cgagctggt

19

<210> 169  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 169  
ccgtgaccct gcagcgt

17

<210> 170  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 170  
gggcagtgcc ggacaga

17

<210> 171  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 171  
ggaggagaag cgggcat

17

<210> 172  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 172  
gggcggcctg atgaggt

17

<210> 173  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 173  
gacggcagga atgctacc

18

<210> 174  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 174  
ggaacagcca gaaggact

18

<210> 175  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 175  
ggacttcctg gaggagg

17

<210> 176

<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 176  
ggaacagcca gaaggacaa

19

<210> 177  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 177  
gccagaagga cctcctgt

18

<210> 178  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 178  
gacctcctgg aggagag

17

<210> 179  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 179  
aattaccttt tccagggact

20

<210> 180  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 180  
gagaagcggg cagtgt

17

<210> 181  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 181  
cccatgaccc tgcagca

17

<210> 182  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 182  
tggggcggcc tgagga

16

<210> 183  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 183  
gccgtgaccc tgcagca

17

<210> 184  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 184  
gaattacgtg caccagtt

18

<210> 185  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 185  
actggaacag ccagaagc

18

<210> 186  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 186  
accaacaggg gagtttatg

19

<210> 187  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 187  
gaatttgatg aagatgagat g

21

<210> 188  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 188  
agtttggcca agccttttc

19

<210> 189  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 189  
gaccaacagg agagtttatg 20

<210> 190  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 190  
gaatttgatg acgatgagat g 21

<210> 191  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 191  
atctggataa aaaggagacc 20

<210> 192  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 192  
tttggccaaa ccttttcctt 20

<210> 193  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 193  
agtttggccg agccttttc 19

<210> 194  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 194  
tgtacagacc catagacca 19

<210> 195  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 195  
gaagatgagc agttctatgt 20

<210> 196  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 196

cgtttgtaca aacctataga

20

<210> 197

<211> 19

<212> DNA

<213> Homo sapiens

<400> 197

ggatctggat aagaaggag

19

<210> 198

<211> 21

<212> DNA

<213> Homo sapiens

<400> 198

acttatgccca tgtttgtaca g

21

<210> 199

<211> 21

<212> DNA

<213> Homo sapiens

<400> 199

attgctatat cgaacaaca c

21

<210> 200

<211> 19

<212> DNA

<213> Homo sapiens

<400> 200

gaatatcgct atccagcgt

19

<210> 201

<211> 17

<212> DNA

<213> Homo sapiens

<400> 201

taccagggac ggcagga

17

<210> 202

<211> 18

<212> DNA

<213> Homo sapiens

<400> 202

ccggacaggg tatgcaga

18

<210> 203

<211> 18

<212> DNA

<213> Homo sapiens



<400> 203  
ggacagggtgta tgcagaca

18

<210> 204  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 204  
gacgtgggag agttccg

17

<210> 205  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 205  
attacctttt ccagggacg

19

<210> 206  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 206  
ggagttcgtg cgcttcg

17

<210> 207  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 207  
ggcctgatga ggagtact

18

<210> 208  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 208  
ggaggaggag cgggca

16

<210> 209  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 209  
ggacaggatg tgcagaca

18

<210> 210

<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 210  
gagctgggcg ggccc 15

<210> 211  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 211  
cggcctgacg aggagta 17

<210> 212  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 212  
cgggcagttc cggacag 17

<210> 213  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 213  
caaccgggaa gagttcgt 18

<210> 214  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 214  
ggaggagttt gtgcgctt 18

<210> 215  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 215  
ggaggagctc gtgcgc 16

<210> 216  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 216  
cggcctgagg cggagt 16

<210> 217  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 217  
cgggcccattg accctg

16

<210> 218  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 218  
tgtaccagtt acggcagg

18

<210> 219  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 219  
tgatgaggac tactggaac

19

<210> 220  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 220  
cagaaggacc tcctggag

18

<210> 221  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 221  
gtgaccctac agcgccg

17

<210> 222  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 222  
ggaggagttc gcgcgc

16

<210> 223  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 223

ggagctcgtg cgcttcg

17

<210> 224

<211> 20

<212> DNA

<213> Homo sapiens

<400> 224

aattacgtgc accagttacg

20

<210> 225

<211> 18

<212> DNA

<213> Homo sapiens

<400> 225

tacaaccggc aggagtac

18

<210> 226

<211> 19

<212> DNA

<213> Homo sapiens

<400> 226

atctacaaca ggcaggagt

19

<210> 227

<211> 18

<212> DNA

<213> Homo sapiens

<400> 227

ccggacagga tatgcaga

18

<210> 228

<211> 16

<212> DNA

<213> Homo sapiens

<400> 228

cgagctggtc gggccc

16

<210> 229

<211> 18

<212> DNA

<213> Homo sapiens

<400> 229

gccggacaga gtatgcag

18

<210> 230

<211> 17

<212> DNA

<213> Homo sapiens

<400> 230  
gcaccagtta cggcagg 17

<210> 231  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 231  
gcgggcattg ccggac 16

<210> 232  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 232  
ctgatgaggt gtactggaa 19

<210> 233  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 233  
gaatgctacc cgtttaatgg 20

<210> 234  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 234  
cagaaggact tcctggag 18

<210> 235  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 235  
agaaggacaa cctggagg 18

<210> 236  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 236  
gacctcctgt aggagaag 18

<210> 237  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 237  
ggaggagagg cgggca 16

<210> 238  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 238  
ggaccagtta cggcagg 17

<210> 239  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 239  
tccagggact gcaggaat 18

<210> 240  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 240  
ggcagtgctg gacaggg 17

<210> 241  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 241  
gctgggcggg cccatg 16

<210> 242  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 242  
cggcctgagg aggagta 17

<210> 243  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 243  
ggcctgagga ggagtact 18

<210> 244  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 244  
agccagaagc acatcctg 18

<210> 245  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 245  
aaacacggtc acctcagggg gat 23

<210> 246  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 246  
ggcctgagtg tggttggaac g 21

<210> 247  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 247  
ccagctcgta gttgtgtctg ca 22

<210> 248  
<211> 39  
<212> DNA  
<213> Homo sapiens

<400> 248  
aacgttcacc ttaggctgga ccatgtgtca acttatgcc 39

<210> 249  
<211> 2  
<212> DNA  
<213> Homo sapiens

<400> 249  
aa 2

<210> 250  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 250  
agaattacct tttccag

17

<210> 251  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 251  
agaattacgt tttccag

17



## SEQUENCE LISTING DQ

<110> CANON KABUSHIKI KAISHA

<120> Probe set and method for identifying HLA allele

<130> G10003828dq

<150> JP2003-430555

<151> 2003-12-25

<160> 244

<170> PatentIn version 3.2

<210> 1

<211> 20

<212> DNA

<213> Homo sapiens

<400> 1

tgaatttgat ggagatgagg

20

<210> 2

<211> 18

<212> DNA

<213> Homo sapiens

<400> 2

ggtgcttcca gacaccag

18

<210> 3

<211> 18

<212> DNA

<213> Homo sapiens

<400> 3

ggttgtctgt gggcctca

18

<210> 4

<211> 18

<212> DNA

<213> Homo sapiens

<400> 4

cagcccaaca ccctcatc

18

<210> 5

<211> 17

<212> DNA

<213> Homo sapiens

<400> 5

gctgagcaat gggcacg

17

<210> 6

<211> 18

<212> DNA  
<213> Homo sapiens

<400> 6  
cagagactgt ggtctgca 18

<210> 7  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 7  
cccttggtga ggtgaagg 18

<210> 8  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 8  
cctgtggtca acatcacc 18

<210> 9  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 9  
ccctgtggag gtgaagg 17

<210> 10  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 10  
cctggagagg aaggagg 17

<210> 11  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 11  
tgcctctgtt ccacagac 18

<210> 12  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 12  
agcctgagat tccaa 15

<210> 13  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 13  
gccctgacca ccgtgac 17

<210> 14  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 14  
caccttctc cttctga 18

<210> 15  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 15  
ttaaacgctc caactctact 20

<210> 16  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 16  
ccagacacca agggccc 17

<210> 17  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 17  
cagtgttttc caagtctcct 20

<210> 18  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 18  
gcactggggc ctggaca 17

<210> 19  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 19  
ggtctgcgcc ctggga 16

<210> 20  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 20ctgaccacgt tgcctctta

19

<210> 21  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 21  
cctaaaacat aacttgaaca gt

22

<210> 22  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 22  
cagacaatth agatttgacc g

21

<210> 23  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 23  
tcaccctcct cccttctt

18

<210> 24  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 24  
tgtaccagtc ttacgtct

19

<210> 25  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 25  
aggtggagca ctgggga

17

<210> 26  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 26  
ggtcctctg gccagtt

17

<210> 27  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 27  
ccaagtctcc cgtgacg

17

<210> 28  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 28  
gcactgacaa acatcgcc

18

<210> 29  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 29  
gggggtgtac cgggca

16

<210> 30  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 30  
cgcaggggcg gcctgt

16

<210> 31  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 31  
agggggcccg ggcgt

15

<210> 32  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 32  
gggcgtcgtt ggacag

16

<210> 33  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 33

gggcgtcggt ggacaga

17

<210> 34

<211> 20

<212> DNA

<213> Homo sapiens

<400> 34

cagatttcta tccaagccac

20

<210> 35

<211> 17

<212> DNA

<213> Homo sapiens

<400> 35

gcgacgtggg ggtgtat

17

<210> 36

<211> 16

<212> DNA

<213> Homo sapiens

<400> 36

cgcaggggcg gcctag

16

<210> 37

<211> 16

<212> DNA

<213> Homo sapiens

<400> 37

gcaggggcg cctagc

16

<210> 38

<211> 16

<212> DNA

<213> Homo sapiens

<400> 38

cgcaggggcg gcctga

16

<210> 39

<211> 16

<212> DNA

<213> Homo sapiens

<400> 39

gcaggggcg cctgac

16

<210> 40

<211> 18

<212> DNA

<213> Homo sapiens

<400> 40  
gaaggacatc ctggagga 18

<210> 41  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 41  
ggacatcctg gagaggaaa 19

<210> 42  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 42  
ctccccagcg tggagac 17

<210> 43  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 43  
ccggtggttt cggaaatgg 18

<210> 44  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 44  
ctgctggggc tgcctga 17

<210> 45  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 45  
cttcgacagc gacgtgga 18

<210> 46  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 46  
cgctggggcc gcctga 16

<210> 47

<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 47  
ctccccagca tggagac 17

<210> 48  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 48  
caccccagcc tccagaa 17

<210> 49  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 49  
aaccgagagg agtacgca 18

<210> 50  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 50  
gctggggcgc cctgc 15

<210> 51  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 51  
aggaccggcg cgagat 16

<210> 52  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 52  
cctccagaac cccatcat 18

<210> 53  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 53  
cggagcgcgt gcgtct 16



<210> 54  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 54  
gacgccgctg gggcc

15

<210> 55  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 55  
cagaaggaag tcctggaga

19

<210> 56  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 56  
tacttcacca acgggacc

18

<210> 57  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 57  
cgggcggagt tggacac

17

<210> 58  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 58  
cgtcggtgga caccgta

17

<210> 59  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 59  
gtgggggtgt atcgggt

17

<210> 60  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 60tgactcccca gcatgcc

17

<210> 61  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 61  
ggaaatgact ccccagca 18

<210> 62  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 62  
ggaacagcca gaaggaaga 19

<210> 63  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 63  
accaacggga ccgagct 17

<210> 64  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 64  
gccgctgggg cggt 15

<210> 65  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 65  
ccatgtgcta cttaccaat 20

<210> 66  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 66  
tgtatcgggc ggtgacc 17

<210> 67  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 67  
gtttcggaat gaccaggaa 19

<210> 68  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 68  
gtgcgtcttg tgaccagat

19

<210> 69  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 69  
ggcgttccgc gggatct

17

<210> 70  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 70  
taggaatggt gactggact

19

<210> 71  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 71  
gagcgcgtgc gtcttgta

18

<210> 72  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 72  
caggccagat caaagtcca

19

<210> 73  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 73  
cgtgggggtg taccgc

16

<210> 74  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 74

aggaagtcct ggagagga

18

<210> 75

<211> 18

<212> DNA

<213> Homo sapiens

<400> 75

acacaactac gagtgagg

18

<210> 76

<211> 19

<212> DNA

<213> Homo sapiens

<400> 76

gtgcgtcttg taaccagat

19

<210> 77

<211> 16

<212> DNA

<213> Homo sapiens

<400> 77

gcaggggcgg cctgtc

16

<210> 78

<211> 18

<212> DNA

<213> Homo sapiens

<400> 78

caactacgag gtggcgtt

18

<210> 79

<211> 17

<212> DNA

<213> Homo sapiens

<400> 79

gcggcctgat gccgaga

17

<210> 80

<211> 16

<212> DNA

<213> Homo sapiens

<400> 80

gggcgggtgac gccgct

16

<210> 81

<211> 16

<212> DNA

<213> Homo sapiens

<400> 81

cgctggggcg gcctga

16

<210> 82

<211> 16

<212> DNA

<213> Homo sapiens

<400> 82

gggacccggg cggagt

16

<210> 83

<211> 19

<212> DNA

<213> Homo sapiens

<400> 83

ggagatgagg agttctacg

19

<210> 84

<211> 18

<212> DNA

<213> Homo sapiens

<400> 84

cagacaccag gggccatt

18

<210> 85

<211> 18

<212> DNA

<213> Homo sapiens

<400> 85

gtgggcctca tgggcatt

18

<210> 86

<211> 19

<212> DNA

<213> Homo sapiens

<400> 86

caccctcatc tgtcttgtg

19

<210> 87

<211> 18

<212> DNA

<213> Homo sapiens

<400> 87

aatgggcacg cagtcaca

18

<210> 88  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 88  
ggtctgcacc ctgggg 16

<210> 89  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 89  
gaggtgaagg cattgtgg 18

<210> 90  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 90  
caacatcacc tggctgag 18

<210> 91  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 91  
ggaaggaggc tgcctgg 17

<210> 92  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 92  
ctgttcaca gacttagacc ttt 23

<210> 93  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 93  
gagattccaa cacctatgtc 20

<210> 94  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 94  
cacctgacg agccctt 17

<210> 95  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 95  
ctcccttctg atgatgagat

20

<210> 96  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 96  
caactctact gctgctacc

19

<210> 97  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 97  
catcatccga ggcctgc

17

<210> 98  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 98  
caagtctct gtgacgct

18

<210> 99  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 99  
ggcctggaca agcctctt

18

<210> 100  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 100  
cgccctggga ttgtctgt

18

<210> 101  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 101  
gttgctctt atggtgtaaa

20

<210> 102  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 102  
aacttgaaca gtctgattaa ac

22

<210> 103  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 103  
acgtttgacc ggcaatttgc ac

22

<210> 104  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 104  
ctcccttctt ctgaggag

18

<210> 105  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 105  
cttacggtct ctctggcc

18

<210> 106  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 106  
gcactgggga ctggacaa

18

<210> 107  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 107  
ctggccagtt cacccatg

18

<210> 108  
<211> 16  
<212> DNA  
<213> Homo sapiens



<400> 108  
cccgtgacgc tgggtc 16

<210> 109  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 109  
caaacatcgc cgtgacaaaa 20

<210> 110  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 110  
taccgggcag tgacgcc 17

<210> 111  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 111  
gcggcctgtt gccgag 16

<210> 112  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 112  
ccgggcgtcg gtggac 16

<210> 113  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 113  
ggtggacagg gtgtgca 17

<210> 114  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 114  
ggtggacaga gtgtgcag 18

<210> 115  
<211> 19  
<212> DNA

<213> Homo sapiens

<400> 115

tccaagccac atcaaagtc

19

<210> 116

<211> 16

<212> DNA

<213> Homo sapiens

<400> 116

gggggtgtatc gggcgg

16

<210> 117

<211> 16

<212> DNA

<213> Homo sapiens

<400> 117

gcggcctagc gccgag

16

<210> 118

<211> 16

<212> DNA

<213> Homo sapiens

<400> 118

cggcctagcg ccgagt

16

<210> 119

<211> 16

<212> DNA

<213> Homo sapiens

<400> 119

gcggcctgac gccgag

16

<210> 120

<211> 16

<212> DNA

<213> Homo sapiens

<400> 120

cggcctgacg ccgagt

16

<210> 121

<211> 16

<212> DNA

<213> Homo sapiens

<400> 121

gcggcctgat gccgag

16

<210> 122  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 122  
cctggaggag gaccgg 16

<210> 123  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 123  
gagaggaaac gggcggc 17

<210> 124  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 124  
gcgtggagac gtctacac 18

<210> 125  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 125  
tcggaatggc caggagg 17

<210> 126  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 126  
gctgcctgac gccgag 16

<210> 127  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 127  
cgacgtggag gtgtacc 17

<210> 128  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 128

gccgcctgac gccgag 16

<210> 129  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 129  
gcatggagac gtctacac 18

<210> 130  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 130  
gcctccagaa ccccatca 18

<210> 131  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 131  
ggagtacgca cgcttcga 18

<210> 132  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 132  
ccgcctgccg ccgag 15

<210> 133  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 133  
gggcggagtt ggacacg 17

<210> 134  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 134  
accccatcat cgtggagt 18

<210> 135  
<211> 18  
<212> DNA

<213> Homo sapiens

<400> 135

gcgtgcgtct tgtgacca

18

<210> 136

<211> 16

<212> DNA

<213> Homo sapiens

<400> 136

gctggggccg cctgac

16

<210> 137

<211> 16

<212> DNA

<213> Homo sapiens

<400> 137

cctggagagg acccgg

16

<210> 138

<211> 16

<212> DNA

<213> Homo sapiens

<400> 138

aacgggaccg agcgcg

16

<210> 139

<211> 18

<212> DNA

<213> Homo sapiens

<400> 139

agttggacac ggtgtgca

18

<210> 140

<211> 18

<212> DNA

<213> Homo sapiens

<400> 140

ggacaccgta tgcagaca

18

<210> 141

<211> 17

<212> DNA

<213> Homo sapiens

<400> 141

gtatcgggtg gtgacgc

17

<210> 142  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 142  
cccagcatgc cgtgtctac 19

<210> 143  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 143  
tccccagcat ggagacg 17

<210> 144  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 144  
agaaggaaga cctggagag 19

<210> 145  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 145  
gaccgagctc gtgcgg 16

<210> 146  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 146  
ggggcggett gacgcc 16

<210> 147  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 147  
cttcaccaat gggacgga 18

<210> 148  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 148

gcggtgaccc cgcagg.

16

<210> 149  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 149  
tgaccaggaa gagacagc

18

<210> 150  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 150  
tgtgaccaga tacatctata a

21

<210> 151  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 151  
gcgggatctt gcagagg

17

<210> 152  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 152  
tgactggact ttccagatc

19

<210> 153  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 153  
gcgtcttgta accagacac

19

<210> 154  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 154  
tcaaagtcca gtggtttcg

19

<210> 155  
<211> 17  
<212> DNA

<213> Homo sapiens

<400> 155

gtgtaccgcg cgggtgac

17

<210> 156

<211> 16

<212> DNA

<213> Homo sapiens

<400> 156

ggagaggacc cgggcg

16

<210> 157

<211> 16

<212> DNA

<213> Homo sapiens

<400> 157

cgaggtgggg taccgc

16

<210> 158

<211> 19

<212> DNA

<213> Homo sapiens

<400> 158

gcgtcttgta accagatac

19

<210> 159

<211> 22

<212> DNA

<213> Homo sapiens

<400> 159

tgtaaccaga tacatctata ac

22

<210> 160

<211> 16

<212> DNA

<213> Homo sapiens

<400> 160

cggcctgtcg ccgagt

16

<210> 161

<211> 16

<212> DNA

<213> Homo sapiens

<400> 161

ccgggcggag ttggac

16



<210> 162  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 162  
ggtggcggtc cgcggg

16

<210> 163  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 163  
gatgccgaga actggaac

18

<210> 164  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 164  
acgccgctgg ggcgg

15

<210> 165  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 165  
ggtgaggtaa ctgatcttg

19

<210> 166  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 166  
tccttctggc tgtccagta ctc

23

<210> 167  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 167  
atgaccta acaaagctct g

21

<210> 168  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 168

tgtgtactt caccaacggg acg

23

<210> 169  
 <211> 768  
 <212> DNA  
 <213> Homo sapiens

<400> 169  
 atgaccta acaaagctct gctgctgggg gccctcgctc tgaccaccgt gatgagcccc 60  
 tgtggagggt aagacattgt ggctgaccac gttgcctctt gtggtgtaaa cttgtaccag 120  
 tttacggtc cctctggcca gtacacccat gaatttgatg gagatgagga gttctacgtg 180  
 gacctggaga ggaaggagac tgctggcgg tggcctgagt tcagcaaatt tggaggtttt 240  
 gacccgcagg gtgactgag aaacatggct gtggcaaaac acaacttgaa catcatgatt 300  
 aaacgctaca actctaccgc tgctaccaat gaggttcctg aggtcacagt gttttccaag 360  
 tctcccgta cactgggtca gcccaacacc ctcatttgct ttgtggacaa catctttcct 420  
 cctgtgggtca acatcacatg gctgagcaat gggcagtcag tcacagaagg tgtttctgag 480  
 accagcttcc tctccaagag tgatcattcc ttctcaaga tcagttacct caccttctc 540  
 ccttctgtg atgagattta tgactgcaag gtggagcact ggggctgga ccagcctctt 600  
 ctgaaacact gggagcctga gattccagcc cctatgtcag agctcacaga gactgtggtc 660  
 tgcgcctgg ggttgctgt gggcctcgtg ggcattgtgg tgggcactgt cttcatc 720  
 caaggcctgc gttcagttgg tgcttcaga caccaagggc cattgtga 768

<210> 170  
 <211> 768  
 <212> DNA  
 <213> Homo sapiens

<400> 170atgaccta acaaagctct gctgctgggg gccctcgctc tgaccaccgt gatgagcccc 60  
 tgtggagggt aagacattgt ggctgaccac gttgcctctt gtggtgtaaa cttgtaccag 120  
 tttacggtc cctctggcca gtacacccat gaatttgatg gagatgagga gttctacgtg 180  
 gacctggaga ggaaggagac tgctggcgg tggcctgagt tcagcaaatt tggaggtttt 240  
 gacccgcagg gtgactgag aaacatggct gtggcaaaac acaacttgaa catcatgatt 300  
 aaacgctaca actctaccgc tgctaccaat gaggttcctg aggtcacagt gttttccaag 360  
 tctcccgta cactgggtca gcccaacacc ctcatttgct ttgtggacaa catctttcct 420  
 cctgtgggtca acatcacatg gctgagcaat gggcagtcag tcacagaagg tgtttctgag 480  
 accagcttcc tctccaagag tgatcattcc ttctcaaga tcagttacct caccttctc 540  
 ccttctgtg atgagattta tgactgcaag gtggagcact ggggctgga ccagcctctt 600  
 ctgaaacact gggagcctga gattccagcc cctatgtcag agctcacaga gactgtggtc 660  
 tgcgcctgg ggttgctgt gggcctcgtg ggcattgtgg tgggcactgt cttcatc 720  
 caaggcctgc gttcagttgg tgcttcaga caccaggggc cattgtga 768

<210> 171  
 <211> 768  
 <212> DNA  
 <213> Homo sapiens

<400> 171  
 atgaccta acaaagctct gctgctgggg gccctcgctc tgaccaccgt gatgagcccc 60  
 tgtggagggt aagacattgt ggctgaccac gttgcctctt gtggtgtaaa cttgtaccag 120  
 tttacggtc cctctggcca gtacacccat gaatttgatg gagatgagca gttctacgtg 180  
 gacctggaga ggaaggagac tgctggcgg tggcctgagt tcagcaaatt tggaggtttt 240  
 gacccgcagg gtgactgag aaacatggct gtggcaaaac acaacttgaa catcatgatt 300  
 aaacgctaca actctaccgc tgctaccaat gaggttcctg aggtcacagt gttttccaag 360  
 tctcccgta cactgggtca gcccaacacc ctcatttgct ttgtggacaa catctttcct 420  
 cctgtgggtca acatcacatg gctgagcaat gggcagtcag tcacagaagg tgtttctgag 480  
 accagcttcc tctccaagag tgatcattcc ttctcaaga tcagttacct caccttctc 540  
 ccttctgtg atgagattta tgactgcaag gtggagcact ggggctgga ccagcctctt 600

ctgaaacact gggagcctga gattccagcc cctatgtcag agctcacaga gactgtggtc 660  
 tgtgccctgg gggtgtctgt gggcctcatg ggcattgtgg tgggcactgt cttcatcatc 720  
 caaggcctgc gttcagttgg tgcttcaga caccaagggc cattgtga 768

<210> 172  
 <211> 768  
 <212> DNA  
 <213> Homo sapiens

<400> 172  
 atgatacctaa acaaagctct gctgctgggg gccctcgctc tgaccaccgt gatgagcccc 60  
 tgtggaggtg aagacattgt ggctgaccac gttgcctctt gtggtgtaaa cttgtaccag 120  
 ttttacggtc cctctggcca gtacacccat gaatttgatg gagatgagca gttctacgtg 180  
 gacctggaga ggaaggagac tgcttgccgg tggcctgagt tcagcaaatt tggaggtttt 240  
 gaccgcagg gtgcactgag aaacatggct gtggcaaaac acaactgaa catcatgatt 300  
 aaacgtaca actctaccgc tgctaccaat gaggttctg aggtcacagt gttttcaag 360  
 tctcccgta cactgggtca gcccaacacc ctcattctgc ttgtggacaa catctttcct 420  
 cctgtggtca acatcacatg gctgagcaat gggcagtcag tcacagaagg tgtttctgag 480  
 accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct caccttctc 540  
 ccttctgtg atgagattta tgactgcaag gtggagcact ggggcctgga ccagcctctt 600  
 ctgaaacact gggagcctga gattccagcc cctatgtcag agctcacaga gactgtggtc 660  
 tgtgccctgg gggtgtctgt gggcctcatg ggcattgtgg tgggcactgt cttcatcatc 720  
 caaggcctgc gttcagttgg tgcttcaga caccaagggc cattgtga 768

<210> 173  
 <211> 768  
 <212> DNA  
 <213> Homo sapiens

<400> 173  
 atgatacctaa acaaagctct gctgctgggg gccctcgctc tgaccaccgt gatgagcccc 60  
 tgtggaggtg aagacattgt ggctgaccac gttgcctctt gtggtgtaaa cttgtaccag 120  
 ttttacggtc cctctggcca gttcacccat gaatttgatg gagatgagca gttctacgtg 180  
 gacctggaga agaaggagac tgcttgccgg tggcctgagt tcagcaaatt tggaggtttt 240  
 gaccgcagg gtgcactgag aaacatggct gtggcaaaac acaactgaa catcatgatt 300  
 aaacgtaca actctaccgc tgctaccaat gaggttctg aggtcacagt gttttcaag 360  
 tctcccgta cactgggtca gcccaacacc ctcattctgc ttgtggacaa catctttcct 420  
 cctgtggtca acatcacatg gctgagcaat gggcagcag tcacagaagg tgtttctgag 480  
 accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct caccttctc 540  
 ccttctgtg atgagattta tgactgcaag gtggagcact ggggcctgga ccagcctctt 600  
 ctgaaacact gggagcctga gattccagcc cctatgtcag agctcacaga gactgtggtc 660  
 tgtgccctgg gggtgtctgt gggcctcgtg ggcattgtgg tgggcactgt cttcatcatc 720  
 caaggcctgc gttcagttgg tgcttcaga caccaagggc cttgtga 768

<210> 174  
 <211> 768  
 <212> DNA  
 <213> Homo sapiens

<400> 174  
 atgatacctaa acaaagctct gctgctgggg gccctcgctc tgaccaccat gatgagccct 60  
 tgtggaggtg aaggcattgt ggctgaccac gttgcctctt gtggtgtaaa cttgtaccag 120  
 ttttacggtc cctctggcca gtacacccat gaatttgatg gagatgagga gttctacgtg 180  
 gacctggaga ggaaggagac tgcttgccgg tggcctgagt tcagcaaatt tggaggtttt 240  
 gaccgcagg gtgcactgag aaacatggct gtggcaaaac acaactgaa catcatgatt 300  
 aaacgtaca actctaccgc tgctaccaat gaggttctg aggtcacagt gttttcaag 360  
 tctcccgta cactgggtca gcccaacacc ctcatttgc ttgtggacaa catctttcct 420

cctgtggtca acatcacatg gctgagcaat gggcagtcag tcacagaagg tgtttctgag 480  
 accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct caccttcctc 540  
 cctttctgtg atgagattta tgactgcaag gtggagcact ggggcctgga ccagcctctt 600  
 ctgaaacact gggagcctga gattccagcc cctatgtcag agctcacaga gactgtggtc 660  
 tgcacctggt ggttctctgt gggcctcgtg ggcattgtgg tgggcactgt cttcatcatc 720  
 caaggcctgc gttcagttgg tgcttcaga caccaagggc cattgtga 768

<210> 175  
 <211> 613  
 <212> DNA  
 <213> Homo sapiens

<400> 175  
 atgatactaa acaaagctct gctgctgggg gccctcgtc tgaccacat gatgagccct 60  
 tgtggagggtg aaggcattgt gctgaccac gttgcctctt gtggtgtaaa cttgtaccag 120  
 ttttacggtc cctctggcca gtacacccat gaatttgatg gagatgagga gttctacgtg 180  
 gacctggaga ggaaggagac tgctggcgg tggcctgagt tcagcaaatt tggaggtttt 240  
 gaccgcagag gtgactgag aaacatggct gtggcaaaac acaacttgaa catcatgatt 300  
 aaacgctaca actctaccgc tgctaccaat gaggttcctg aggtcacagt gttttccaag 360  
 tctcccgta cactgggtca gcccaacacc ctcatctgtc ttgtggaaa catctttcct 420  
 cctgtggtca acatcacctg gctgagcaat gggcagtcag tcacagaagg tgtttctgag 480  
 accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct caccttcctc 540  
 ccttctgtg atgagattta tgactgcaag gtggagcact ggggcctgga ccagcctctt 600  
 ctgaaacact ggg 613

<210> 176  
 <211> 750  
 <212> DNA  
 <213> Homo sapiens

<400> 176  
 atgatactaa acaaagctct gctgctgggg gccctcgtc tgaccacat gatgagcccc 60  
 tgtggagggtg aaggcattgt gctgaccac gttgcctctt gtggtgtaaa cttgtaccag 120  
 ttttacggtc cctctggcca gtacacccat gaatttgatg gagatgagga gttctacgtg 180  
 gacctggaga ggaaggagac tgctggcgg tggcctgagt tcagcaaatt tggaggtttt 240  
 gaccgcagag gtgactgag aaacatggct gtggcaaaac acaacttgaa catcatgatt 300  
 aaacgctaca actctaccgc tgctaccaat gaggttcctg aggtcacagt gttttccaag 360  
 tctcccgta cactgggtca gcccaacacc ctcatctgtc ttgtggaaa catctttcct 420  
 cctgtggtca acatcacatg gctgagcaat gggcagtcag tcacagaagg tgtttctgag 480  
 accagcttcc tctccaagag tgatcattcc ttcttcaaga tcagttacct caccttcctc 540  
 ccttctgtg atgagattta tgactgcaag gtggagcact ggggcctgga ccagcctctt 600  
 ctgaaacact gggagcctga gattccagcc cctatgtcag agctcacaga gactgtggtc 660  
 tgcgcctggt ggttctctgt gggcctcgtg ggcattgtgg tgggcactgt cttcatcatc 720  
 caaggcctgc gttcagttgg tgcttcaga 750

<210> 177  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 177  
 ctgaccaggt tgcctcttgt ggtgtaaaact tgtaccagtt ttacgggtccc tctggccagt 60  
 acacccatga atttgatgga gatgagcagt tctacgtgga cctggagagg aaggaggctg 120  
 cctggcggtg gcctgagttc agcaaatttg gaggttttga cccgcagggt gactgagaa 180  
 acatggctgt ggcaaaacac aacttgaaca tcatgattaa acgctacaac tctaccgctg 240  
 ctaccaatg 249

<210> 178  
 <211> 765  
 <212> DNA  
 <213> Homo sapiens

<400> 178  
 atgacccctaa acaaagctct gatgctgggg gccctcgccc tgaccaccgt gatgagccct 60  
 tgtggagggtg aagacattgt ggctgaccac gttgcctctt acggtgtaaa cttgtaccag 120  
 tcttacggtc cctctggcca gttcacccat gaatttgatg gagacgagga gttctatgtg 180  
 gacctggaga ggaaggagac tgtctggaag ttgcctctgt tccacagact tagatttgac 240  
 ccgcaatttg cactgacaaa catcgctgtg ctaaaacata acttgaacat cctgattaaa 300  
 cgctccaact ctaccgtgc taccaatgag gttcctgagg tcacagtgtt ttccaagtct 360  
 cccgtgacac tgggtcagcc caacaccctc atctgtcttg tggacaacat ctttctcct 420  
 gtgggtcaaca tcacctggct gagcaatggg cactcagtca cagaagggtg ttctgagacc 480  
 agcttctct ccaagagtga tcattccttc ttcaagatca gttacctcac cttcctcct 540  
 tctgctgatg agatttatga ctgcaagggtg gagcactggg gcctggatga gcctctctg 600  
 aaacactggg agcctgagat tccagcacct atgtcagagc tcacagagac tgtgtgtctg 660  
 gccctgggggt tgtctgtggg cctcgtgggc attgtgtgtg ggaccgtctt gatcatccga 720  
 ggctgcgtt cagttgtgc ttccagacac caaggccct tgtga 765

<210> 179  
 <211> 768  
 <212> DNA  
 <213> Homo sapiens

<400> 179  
 atgacccctaa acaaagctct gatgctgggg gccctcgccc tgaccaccgt gatgagccct 60  
 tgtggagggtg aagacattgt ggctgaccat gttgcctctt acggtgtaaa cttgtaccag 120  
 tcttatggtc cctctggcca gtacagccat gaatttgatg gagacgagga gttctatgtg 180  
 gacctggaga ggaaggagac tgtctggcag ttgcctctgt tccgcagatt tagaagatt 240  
 gaccgcgaat ttgactgac aaacatcgct gtgctaaaac ataacttgaa catcgtgatt 300  
 aaacgtcca actctaccgc tgctaccaat gaggttcctg aggtcacagt gtttccaag 360  
 tctcccgta cactgggtca gcccaacacc ctcatctgtc ttgtggacaa catcttctc 420  
 cctgtgtgta acatcacctg gctgagcaat gggcactcag tcacagaagg tgtttctgag 480  
 accagcttc tctcaagag tgatcatcc ttctcaaga tcagttacct caccttctc 540  
 ccttctgctg atgagattta tgactgcaag gtggagcact ggggcctgga tgagcctctt 600  
 ctgaaacact gggagcctga gattccaaca cctatgtcag agctcacaga gactgtgtg 660  
 tgcgccctgg ggttgtctgt gggcctcgtg ggcattgtg tggggaccgt cttgatcatc 720  
 cgaggcctgc gttcagttgg tgcttcaga caccaagggc cttgtga 768

<210> 180  
 <211> 768  
 <212> DNA  
 <213> Homo sapiens

<400> 180  
 atgacccctaa acaaagctct gatgctgggg gccctcgccc tgaccaccgt gacgagccct 60  
 tgtggagggtg aagacattgt ggctgaccat gttgcctctt acggtgtaaa cttgtaccag 120  
 tcttatggtc cctctggcca gtacagccat gaatttgatg gagacgagga gttctatgtg 180  
 gacctggaga ggaaggagac tgtctggcag ttgcctctgt tccgcagatt tagaagatt 240  
 gaccgcgaat ttgactgac aaacatcgct gtgctaaaac ataacttgaa catcgtgatt 300  
 aaacgtcca actctaccgc tgctaccaat gaggttcctg aggtcacagt gtttccaag 360  
 tctcccgta cactgggtca gcccaacacc ctcatctgtc ttgtggacaa catcttctc 420  
 cctgtgtgta acatcacctg gctgagcaat gggcactcag tcacagaagg tgtttctgag 480  
 accagcttc tctcaagag tgatcatcc ttctcaaga tcagttacct caccttctc 540  
 ccttctgatg atgagattta tgactgcaag gtggagcact ggggcctgga tgagcctctt 600  
 ctgaaacact gggagcctga gattccaaca cctatgtcag agctcacaga gactgtgtg 660  
 tgcgccctgg ggttgtctgt gggcctcgtg ggcattgtg tggggaccgt cttgatcatc 720

cgaggcctgc gttcagttgg tgcttcaga caccaagggc cttgtga

768

<210> 181

<211> 768

<212> DNA

<213> Homo sapiens

<400> 181

atgaccta	acaaagctct	gatgctgggg	gcctcgccc	tgaccaccgt	gatgagccct	60
tgtggaggtg	aagacattgt	ggctgacat	gttgccctct	acgggtgtaa	ctgtaccag	120
tcttatgtc	cctctgggca	gtacagccat	gaatttgatg	gagacgagga	gttctatgtg	180
gacctggaga	ggaaggagac	tgcttggcag	ttgcctctgt	tccgcagatt	tagaagattt	240
gacccgcaat	ttgactgac	aaacatcgct	gtgctaaaac	ataacttgaa	catcgtgatt	300
aaacgtcca	actctaccgc	tgctaccaat	gaggttctctg	aggtcacagt	gtttccaag	360
tctcccgta	cactgggtca	gccaacacc	ctcatctgtc	ttgtggacaa	catctttcct	420
cctgtggta	acatcacctg	gctgagcaat	gggcactcag	tcacagaagg	tgtttctgag	480
accagcttc	tctccaagag	tgatcattcc	ttctcaaga	tcagttacct	caccttcctc	540
ccttctgatg	atgagattta	tgactgcaag	gtggagcact	ggggcctgga	tgagcctctt	600
ctgaaacact	gggagcctga	gattccaaca	cctatgtcag	agctcacaga	gactgtggtc	660
tgcgccctgg	ggttgtctgt	gggcctcgtg	ggcattgtgg	tggggaccgt	cttgatcatc	720
cgaggcctgc	gttcagttgg	tgcttcaga	caccaagggc	cttgtga		768

<210> 182

<211> 765

<212> DNA

<213> Homo sapiens

<400> 182

atgaccta	acaaagctct	gctgctgggg	gccttgccc	tgaccaccgt	gatgagcccc	60
tgtggaggtg	aagacattgt	ggctgacat	gttgccctct	atgggtgtaa	ctgtaccag	120
tcttaaggtc	cctctggcca	gtacacccat	gaatttgatg	gagacgagca	gttctacgtg	180
gacctgggga	ggaaggagac	tgcttgggtg	ttgcctgttc	tcagacaatt	tagatttgac	240
cgcgaatttg	cactgacaaa	catcgctgtg	acaaaacaca	acttgaacat	cctgattaaa	300
cgctccaact	ctactgctgc	taccaatgag	gttcttgagg	tcacagtgtt	ttccaagtct	360
cccgtgacgc	tgggtcagcc	caacaccctc	atctgtcttg	tggacaacat	cttctctct	420
gtggtaaca	tcacatggct	gagcaatggg	cactcagtca	cagaagggtg	ttctgagacc	480
agcttctct	ccaagagtga	tcattccttc	ttcaagatca	gttacctcac	cttctcct	540
tctgctgatg	agatttatga	ctgcaagggtg	gagcactggg	gcctggacga	gcctcttctg	600
aaacactggg	agcctgagat	tccagccct	atgtcagagc	tcacagagac	tggtgtctgc	660
gccttgggat	tgctgtggg	cctcgtgggc	attgtgtgtg	gcactgtctt	catcatccga	720
ggcctgcgtt	cagttgggtg	ttccagacac	caaggccct	tgtga		765

<210> 183

<211> 528

<212> DNA

<213> Homo sapiens

<400> 183

ctgacatgt	tgctcttat	ggtgtaaact	tgtaccagtc	ttacggcccc	tctggccagt	60
acaccatga	atttgatgga	gacgagcagt	tctacgtgga	cctggggagg	aaggagactg	120
tctggtgtt	gcctgttctc	agacaattta	gatttgaccc	gcaatttgca	ctgacaaaca	180
tcgctgtgac	aaaacacaac	ttgaacatcc	tgattaaacg	ctccaactct	actgctgcta	240
ccaatgaggt	tctgaggtc	acagtgtttt	ccaagtctcc	tgtgacgtg	ggtcagccca	300
acaccctcat	ctgtcttctg	gacaacatct	ttctctctgt	ggtcaacatc	acatggctga	360
gcaatgggca	ctcagtcaca	gaagggtgtt	ctgagaccag	cttctctctc	aagagtgtac	420
attcttctt	caagatcagt	tacctcacct	tctcccttc	tgtgatgag	atttatgact	480
gcaagggtgga	gcactggggc	ctggacgagc	ctcttctgaa	acactggg		528

<210> 184  
 <211> 765  
 <212> DNA  
 <213> Homo sapiens

<400> 184  
 atgatacctaa acaaagctct gatgctgggg gcccttgccc tgaccaccgt gatgagcccc 60  
 tgtggagggtg aagacattgt ggctgaccac gtcgcctctt atggtgtaaa cttgtaccag 120  
 tcttacggtc cctctggcca gtacacccat gaatttgatg gagatgagca gttctacgtg 180  
 gacctgggga ggaaggagac tgtctgggtg ttgcctgttc tcagacaatt tagatttgac 240  
 ccgcaatttg cactgacaaa catcgctgtc ctaaaacata acttgaacag tctgattaaa 300  
 cgctccaact ctaccgtgc taccaatgag gttcctgagg tcacagtgtt ttccaagtct 360  
 cccgtgacac tgggtcagcc caacatctc atctgtcttg tggacaacat ctttctctct 420  
 gtggtcaaca tcacatggct gagcaatggg cactcagtca cagaaggtgt ttctgagacc 480  
 agcttctct ccaagagtga tcattccttc ttcaagatca gttacctcac cctcctcct 540  
 tctgtgagg agagttatga ctgcaagggtg gagcactggg gcctggacaa gcctcttctg 600  
 aaacactggg agcctgagat tccagccct atgtcagagc tcacagagac tgtggtctgc 660  
 gccctgggat tgtctgtggg cctcgtgggc attgtggtgg gcactgtctt catcatccga 720  
 ggctgcgtt cagttggtgc ttccagacac caaggccct tgtga 765

<210> 185  
 <211> 258  
 <212> DNA  
 <213> Homo sapiens

<400> 185  
 gaagacattg tggtgacca cgttgctct tatggtgtaa actgtacca gtcttacggt 60  
 ccctctggcc agtacacca tgaatttgat ggagatgagc agttctacgt ggacctgggg 120  
 aggaaggaga ctgtctggtg ttgcctgtt ctacagacaat ttagatttga ccgcaattt 180  
 gcactgacaa acatcgctgt cctaaaacat aactgaaca gtctgattaa acgctccaac 240  
 tctaccgtg ctaccaat 258

<210> 186  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

<400> 186  
 ggtgtaaaact tgtaccagtc ttacgggtccc tctggccagt acacccatga attgatgga 60  
 gatgagcagt tctacgtgga cctggggagg aaggagactg tctggtgttt gcctgttctc 120  
 agacaattta gatttgaccg gcaatttgca ctgacaaaca tcgtgtctct aaacataac 180  
 ttgaacagtc tgattaaacg ctccaactct accgctgcta cc 222

<210> 187  
 <211> 765  
 <212> DNA  
 <213> Homo sapiens

<400> 187  
 atgatacctaa acaaagctct gatgctgggg gcccttgccc tgaccaccgt gatgagcccc 60  
 tgtggagggtg aagacattgt ggctgaccac gtcgcctctt atggtgtaaa cttgtaccag 120  
 tcttacggtc cctctggcca gtacacccat gaatttgatg gagatgagca gttctacgtg 180  
 gacctgggga ggaaggagac tgtctgggtg ttgcctgttc tcagacaatt tagatttgac 240  
 ccgcaatttg cactgacaaa catcgctgtc ctaaaacata acttgaacag tctgattaaa 300  
 cgctccaact ctaccgtgc taccaatgag gttcctgagg tcacagtgtt ttccaagtct 360  
 cccgtgacac tgggtcagcc caacatctc atctgtcttg tggacaacat ctttctctct 420  
 gtggtcaaca tcacatggct gagcaatggg cactcagtca cagaaggtgt ttctgagacc 480

agcttctct ccaagagtga tcattccttc ttcaagatca gttacctcac cctctccct 540  
 tcttctgagg agagttaga ctgcaagggtg gagcactggg gcctggacaa gcctcttctg 600  
 aaacactggg agcctgagat tccagccct atgtcagagc tcacagagac tgtggtctgc 660  
 gcctgggat tgtctgtggg cctcgtgggc attgtggtgg gcaactgtctt catcatccga 720  
 ggctgcgtt cagttggtgc ttccagacac caaggccct tgtga 765

<210> 188  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 188  
 ctgaccacgt cgctcttat ggtgtaaact tgtaccagtc ttacggtctc tctggccagt 60  
 acacccatga atttgatgga gatgagcagt tctacgtgga cctggggagg aaggagactg 120  
 tctggtgttt gcctgttctc agacaattta gatttgaccc gcaatttgca ctgacaaaca 180  
 tcgctgtcct aaaacataac ttgaacagtc tgattaaacg ctccaactct accgctgcta 240  
 ccaatg 246

<210> 189  
 <211> 765  
 <212> DNA  
 <213> Homo sapiens

<400> 189  
 atgatcctaa acaaagctct gatgctgggg acccttgccc tgaccaccgt gatgagcccc 60  
 tgtggagggtg aagacattgt ggctgaccac gtcgcctctt atggtgtaaa cttgtaccag 120  
 tcttacggtc cctctggcca gtacacccat gaatttgatg gagatgagca gttctacgtg 180  
 gacctgggga ggaaggagac tgtctggtgt ttgcctgttc tcagacaatt tagatttgac 240  
 ccgcaatttg cactgacaaa catcgtgtgc ctaaaacata acttgaacag tctgattaaa 300  
 cgctccaact ctaccgctgc taccaatgag gttcctgagg tcacagtgtt ttccaagtct 360  
 cccgtgacac tgggtcagcc caacatcctc atctgtcttg tggacaacat ctttctcct 420  
 gtggtcaaca tcacatggct gagcaatggg cactcagtca cagaagggtg ttctgagacc 480  
 agcttctct ccaagagtga tcattccttc ttcaagatca gttacctcac cctctccct 540  
 tctgctgagg agagttaga ctgcaagggtg gagcactggg gactggacaa gcctcttctg 600  
 aaacactggg agcctgagat tccagccct atgtcagagc tcacagagac tgtggtctgc 660  
 gcctgggat tgtctgtggg cctcgtgggc attgtggtgg gcaactgtctt catcatccga 720  
 ggctgcgtt cagttggtgc ttccagacac caaggccct tgtga 765

<210> 190  
 <211> 765  
 <212> DNA  
 <213> Homo sapiens

<400> 190atgatcctaa acaaagctct gctgctgggg gcccttgccc tgaccaccgt gatgagcccc 60  
 tgtggagggtg aagacattgt ggctgaccat gttgcctctt atggtgtaaa cttgtaccag 120  
 tcttacggtc cctctggcca gttacccat gaatttgatg gagacgagca gttctacgtg 180  
 gacctgggga ggaaggagac tgtctggtgt ttgcctgttc tcagacaatt tagatttgac 240  
 ccgcaatttg cactgacaaa catcgtgtg acaaaacaca acttgaacat cctgattaaa 300  
 cgctccaact ctaccgctgc taccaatgag gttcctgagg tcacagtgtt ttccaagtct 360  
 cccgtgacgc tgggtcagcc caacaccctc atctgtcttg tggacaacat ctttctcct 420  
 gtggtcaaca tcacatggct gagcaatggg cactcagtca cagaagggtg ttctgagacc 480  
 agcttctct ccaagagtga tcattccttc ttcaagatca gttacctcac cttctccct 540  
 tctgctgatg agatttatga ctgcaagggtg gagcactggg gcctggacga gcctcttctg 600  
 aaacactggg agcctgagat tccagccct atgtcagagc tcacagagac tgtggtctgc 660  
 gcctgggat tgtctgtggg cctcgtgggc attgtggtgg gcaactgtctt catcatccga 720  
 ggctgcgtt cagttggtgc ttccagacac caaggccct tgtga 765



<210> 191  
 <211> 227  
 <212> DNA  
 <213> Homo sapiens

<400> 191  
 ggtgtaaact tgtaccagtc ttacgggtccc tctggccagt tcacccatga atttgatgga 60  
 gacgagcagt tctacgtgga cctggggagg aaggagactg tctggtgttt gcctgttctc 120  
 agacaattta gatttgaccc gcaatttgca ctgacaaaca tcgccgtgac aaaacacaac 180  
 ttgaacatcc tgattaaacg ctccaactct accgctgcta ccaatga 227

<210> 192  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 192  
 gggcctgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca gacacatcta 60  
 taaccgagag gactacgtgc gcttcgacag cgacgtgggg gtgtaccggg cagtacgcc 120  
 gcaggggccc cctgttgccg agtactggaa cagccagaag gaagtcctgg agggggcccg 180  
 ggcgtcgggtg gacaggggtg gcagacacaa ctacgaggtg gcgtaccgcg ggatcctgca 240  
 gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300  
 caacctgctg atctgctcgg tgacagattt ctatccaagc cagatcaaag tccggtggtt 360  
 tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccctatta ggaacggtga 420  
 ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac 480  
 ctgccacgtg gagcaccaca gcctccagag ccccatcacc gtggagtgg 529

<210> 193  
 <211> 244  
 <212> DNA  
 <213> Homo sapiens

<400> 193  
 gggcctgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca gacacatcta 60  
 taaccgagag gactacgtgc gcttcgacag cgacgtgggg gtgtaccggg cgtgacgcc 120  
 gcaggggccc cctgttgccg agtactggaa cagccagaag gaagtcctgg agggggcccg 180  
 ggcgtcgggtg gacagagtgt gcagacacaa ctacgaggtg gcgtaccgcg ggatcctgca 240  
 gagg 244

<210> 194  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 194  
 gggcctgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca gacacatcta 60  
 taaccgagag gactacgtgc gcttcgacag cgacgtgggg gtgtaccggg cgtgacgcc 120  
 gcaggggccc cctagcggc agtactggaa cagccagaag gaagtcctgg agggggcccg 180  
 ggcgtcgggtg gacagagtgt gcagacacaa ctacgaggtg gcgtaccgcg ggatcctgca 240  
 gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300  
 caacctgctg atctgctcgg tgacagattt ctatccaagc cagatcaaag tccggtggtt 360  
 tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccctatta ggaacggtga 420  
 ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac 480  
 ctgccacgtg gagcaccaca gcctccagag ccccatcacc gtggagtgg 529

<210> 195  
 <211> 245  
 <212> DNA  
 <213> Homo sapiens

<400> 195  
 gggcctgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca gacacatcta 60  
 taaccgagag gactacgtgc gcttcgacag cgacgtgggg gtgtatcggg cggtgacgcc 120  
 gcagggggcgg cctagcgcg agtactggaa cagccagaag gaagtcctgg agggggcccc 180  
 ggctgcggg gacagagtgt gcagacacaa ctacgaggtg gcgtaccgcg ggatcctgca 240  
 gagga 245

<210> 196  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 196  
 gggcctgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca gacacatcta 60  
 taaccgagag gactacgtgc gcttcgacag cgacgtgggg gtgtatcggg cggtgacgcc 120  
 gcagggggcgg cctgacgcc agtactggaa cagccagaag gaagtcctgg agggggcccc 180  
 ggctgcggg gacagagtgt gcagacacaa ctacgaggtg gcgtaccgcg ggatcctgca 240  
 gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300  
 caacctgtg atctgtcgg tgacagattt ctatccaagc agatcaaag tccggtggtt 360  
 tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccctcatta ggaacggtga 420  
 ctggaccttc cagatcctgg tgatgtgga aatgactccc cagcgtggag atgtctacac 480  
 ctgccacgtg gagcaccca gcctccagag cccatcacc gtggagtgg 529

<210> 197  
 <211> 148  
 <212> DNA  
 <213> Homo sapiens

<400> 197  
 gacggagcgc gtgcgggggtg tgaccagaca catctataac cgagaggagt acgtgcgctt 60  
 cgacagcgac gtgggggtgt atcgggcggt gacgccgag gggcggcctg atgccgagta 120  
 ctggaacagc cagaaggaag tcttgag 148

<210> 198  
 <211> 212  
 <212> DNA  
 <213> Homo sapiens

<400> 198  
 gggcctgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca gatacatcta 60  
 taaccgagaa gactacgtgc gcttcgacag cgacgtgggg gtgtaccggg cggtgacgcc 120  
 gcagggggcgg cctagcgcg agtactggaa cagccagaag gacatcctgg aggaggaccg 180  
 ggctgcggg gacagggtgt gcagacacaa ct 212

<210> 199  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 199  
 gggcatgtgc tacttcacca acgggacaga gcgcgtgcgt cttgtgagca gaagcatcta 60

```

taaccgagaa gagatcgtgc gcttcgacag cgacgtgggg gagttccggg cggtagcgt 120
gctggggctg cctgccgccg agtactggaa cagccagaag gacatcctgg agaggaaacg 180
ggcggcggtg gacagggtgt gcagacacaa ctaccagttg gagtccgca cgacctgca 240
gcggcgagtg gagccacag tgacctctc cccatccagg acagaggccc tcaaccacca 300
caacctgctg gtctgctcg tgacagattt ctatccagcc cagatcaaag tccggtggtt 360
tcggaatgac caggaggaga cagctggcgt tgtgtccacc ccccttatta ggaatggtga 420
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480
ctgccacgtg gagcacccca gctccagag cccatcacc gtggagtgg 529

```

<210> 200  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

```

<400> 200gggcatgtgc tacttcacca acgggacaga gcgcgtgcgt cttgtgagca gaagcateta 60
taaccgagaa gagatcgtgc gcttcgacag cgacgtgggg gagttccggg cggtagcgt 120
gctggggctg cctgccgccg agtactggaa cagccagaag gacatcctgg agaggaaacg 180
ggcggcggtg gacagggtgt gcagacacaa ctaccagttg gagtccgca cgacctgca 240
gcggcgagtg gagccacag tgacctctc cccatccagg acagaggccc tcaaccacca 300
caacctgctg gtctgctcg tgacagattt ctatccagcc cagatcaaag tccggtggtt 360
tcggaatgac caggaggaga cagctggcgt tgtgtccacc ccccttatta ggaatggtga 420
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480
ctgccacgtg gagcacccca gctccagag cccatcacc gtggagtgg 529

```

<210> 201  
 <211> 449  
 <212> DNA  
 <213> Homo sapiens

```

<400> 201
gggcatgtgc tacttcacca acgggacaga gcgcgtgcgt cttgtgagca gaagcateta 60
taaccgagaa gagatcgtgc gcttcgacag cgacgtgggg gagttccggg cggtagcgt 120
gctggggctg cctgacgccg agtactggaa cagccagaag gacatcctgg agaggaaacg 180
ggcggcggtg gacagggtgt gcagacacaa ctaccagttg gagtccgca cgacctgca 240
gcggcgacct catccaggac agaggccctc aaccaccaca acctgctggt ctgctcggtg 300
acagatttct atccagccca gatcaaagtc cgggtggttc ggaatggcca ggaggagaca 360
gctggcgttg tgtccacccc cttattagg aatggtgact ggaccttcca gatcctggtg 420
atgctggaaa tgactcccca gcgtggaga 449

```

<210> 202  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

```

<400> 202
ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca gatacateta 60
taaccgagag gactacgac gcttcgacag cgacgtggag gtgtaccggg cggtagcgc 120
gctggggcgg cctgacgccg agtactggaa cagccagaag gaagtctgg agaggaccg 180
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgacctgca 240
gcggcgagtg gagccacag tgacctctc cccatccagg acagaggccc tcaaccacca 300
caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt 360
tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta ggaacggtga 420
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag acgtctacac 480
ctgccacgtg gagcacccca gctccagaa cccatcacc gtggagtgg 529

```

<210> 203

<211> 248  
 <212> DNA  
 <213> Homo sapiens

<400> 203  
 ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca gatacatcta 60  
 taaccgagag gactacgcgc gcttcgacag cgacgtggag gtgtaccggg cggtagcgcc 120  
 gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
 ggccgagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
 gcggcgag 248

<210> 204  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 204  
 gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60  
 taaccgagag gactacgcac gcttcgacag cgacgtgggg gtgtatcggg cggtagcgcc 120  
 gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
 ggccgagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
 gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300  
 caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt 360  
 tcggaatgac caggaggaga caactggcgt tgtgtccacc ccccttatta ggaacggtga 420  
 ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480  
 ctgccacgtg gagcacccca gctccagaa cccatcacc gtggagtgg 529

<210> 205  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 205  
 gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60  
 taaccgagag gactacgcac gcttcgacag cgacgtgggg gtgtatcggg cggtagcgcc 120  
 gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
 ggccgagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
 gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300  
 caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt 360  
 tcggaatgac caggaggaga caactggcgt tgtgtccacc ccccttatta ggaacggtga 420  
 ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480  
 ctgccacgtg gagcacccca gctccagaa cccatcacc gtggagtgg 529

<210> 206  
 <211> 248  
 <212> DNA  
 <213> Homo sapiens

<400> 206  
 gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60  
 taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtatcggg cggtagcgcc 120  
 gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
 ggccgagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
 gcggcgag 248

<210> 207

<211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 207  
 ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca gatacatcta 60  
 taaccgagag gactacgcac gcttcgacag cgacgtggag gtgtaccggg cggtagacgcc 120  
 gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
 ggccgagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
 gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300  
 caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt 360  
 tcggaatgac caggaggaga caaccggcgt tgtgtccacc cccttatta ggaacggtga 420  
 ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag acgtctacac 480  
 ctgccacgtg gagcaccca gcctccagaa cccatcacc gtggagtgg 529

<210> 208  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 208  
 gggcatgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca gatacatcta 60  
 taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtatcggg cggtagacgcc 120  
 gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
 ggccgagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
 gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300  
 caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt 360  
 tcggaatgac caggaggaga caactggcgt tgtgtccacc cccttatta ggaacggtga 420  
 ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480  
 ctgccacgtg gagcaccca gcctccagaa cccatcacc gtggagtgg 529

<210> 209  
 <211> 248  
 <212> DNA  
 <213> Homo sapiens

<400> 209  
 gggcatgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca gatacatcta 60  
 taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtatcggg cggtagacgcc 120  
 gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
 ggccgagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
 gcggcgag 248

<210> 210  
 <211> 248  
 <212> DNA  
 <213> Homo sapiens

<400> 210gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60  
 taaccgagag gactacgcac gcttcgacag cgacgtgggg gtgtatcggg cggtagacgcc 120  
 gctggggccg cctgacgccg agtactggaa tagccagaag gacatcctgg agaggaccgc 180  
 ggctcgggtg gacaccgtat gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
 gcggcgag 248

<210> 211  
 <211> 247

<212> DNA  
<213> Homo sapiens

<400> 211  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60  
taaccgagag gactacgcac gcttcgacag cgacgtgggg gtgtatcggg tggtagacgc 120  
gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
gcggcga 247

<210> 212  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 212  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60  
taaccgagag gactacgcac gcttcgacag cgacgtgggg gtgtatcggg cggtagacgc 120  
gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg aggggaccgc 180  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
gcggcgag 248

<210> 213  
<211> 526  
<212> DNA  
<213> Homo sapiens

<400> 213  
ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca gatacatcta 60  
taaccgagag gactacgcac gcttcgacag cgacgtggag gtgtaccggg cggtagacgc 120  
gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
gcggcgagtg gagccacag tgaccatctc ccatccagg acagaggccc tcaaccacca 300  
caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt 360  
tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta ggaacggtga 420  
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatgccg tctacacctg 480  
ccacgtggag caccacagcc tcagaacct catcacctg gagtgg 526

<210> 214  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 214  
ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca gatacatcta 60  
taaccgagag gactacgcac gcttcgacag cgacgtgggg gtgtatcggg cggtagacgc 120  
gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
gcggcgagtg gagccacag tgaccatctc ccatccagg acagaggccc tcaaccacca 300  
caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt 360  
tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta ggaacggtga 420  
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag acgtctacac 480  
ctgccacgtg gagcacccca gccctcagaa ccccatcacc tgggagtg 529

<210> 215  
<211> 248

<212> DNA  
<213> Homo sapiens

<400> 215  
gggcctgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60  
taaccgagag gactacgcac gcttcgacag cgacgtgggg gtgtatcggg cggtagacgc 120  
gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
gcggcgag 248

<210> 216  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 216  
ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60  
taaccgagag gactacgcac gcttcgacag cgacgtgggg gtgtatcggg cggtagacgc 120  
gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
gcggcgag 248

<210> 217  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 217  
ggccatgtgc tacttcacca acgggacgga gcgcgtgcgt tatgtgacca gatacatcta 60  
taaccgagag gactacgcac gcttcgacag cgacgtggag gtgtaccggg cggtagacgc 120  
gctggggccg cctgacgccg agtactggaa cagccagaag gaagacctgg agaggaccgc 180  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
gcggcgag 248

<210> 218  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 218  
gggcatgtgc tacttcacca acgggaccga gctcgtgcgg ggtgtgacca gatacatcta 60  
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtatcggg cggtagacgc 120  
gctggggccg cttgacgccg agtactggaa tagccagaag gacatcctgg aggaggaccg 180  
ggcgtcgggtg gacaccgtat gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
gcggcgagtg gagccacag tgaccatctc ccatccagg acagaggccc tcaaccacca 300  
caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt 360  
tcggaatgac caggaggaga caactggcgt tgtgtccacc ccccttatta ggaacggtga 420  
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480  
ctgccagtg gagcaccca gcctccagaa cccatcatc gtggagtgg 529

<210> 219  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 219

```

gggcatgtgc tacttcacca acgggaccca gcgcgtgcgg ggtgtgacca gatacatcta    60
taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtatcggg cggtgacgcc    120
gctggggcgg cttgacgccg agtactggaa tagccagaag gacatcctgg aggaggaccg    180
ggcgtcggtg gacaccgtat gcagacacaa ctaccagttg gagctccgca cgaccttga    240
gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca    300
caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt    360
tcggaatgac caggaggaga caactggcgt tgtgtccacc ccccttatta ggaacggtga    420
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac    480
ctgccacgtg gagcaccca gcctccagaa cccatcatc gtggagtgg                    529

```

<210> 220  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

```

<400> 220
ggccatgtgc tacttcacca atgggacgga gcgcgtgcgt tatgtgacca gatacatcta    60
taaccgagag gaggacgtgc gcttcgacag cgacgtgggg gtgtatcggg cggtgacgcc    120
gcagggggcgg cctgacgccg agtactggaa cagccagaag gacatcctgg agaggaccg    180
agcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcttgca    240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca    300
caacctgctg gtctgctcgg tgacagattt ctatccagcc cagatcaaag tccggtggtt    360
tcggaatgac caggaggaga cagctggcgt tgtgtccacc ccccttatta ggaacggtga    420
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag acgtctacac    480
ctgccacgtg gagcaccca gcctccagag cccatcacc gtggagtgg                    529

```

<210> 221  
 <211> 204  
 <212> DNA  
 <213> Homo sapiens

```

<400> 221
gccatgtgct acttcaccaa cgggacggag gcgcgtgcgt atgtgaccag atacatctat    60
aaccgagagg aggacgtgcg cttcgacagc gacgtggggg tgtatcgggc ggtgaccccg    120
cagggggcggc ctgacgccga gtactggaac agccagaagg acatcctgga gaggaccga    180
gcggagtttg acacggtgtg caga                                204

```

<210> 222  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

```

<400> 222
ggccatgtgc tacttcacca atgggacgga gcgcgtgcgt tatgtgacca gatacatcta    60
taaccgagag gaggacgtgc gcttcgacag cgacgtgggg gtgtatcggg cggtgacgcc    120
gcagggggcgg cctgacgccg agtactggaa cagccagaag gacatcctgg agaggaccg    180
agcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcttgca    240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca    300
caacctgctg gtctgctcgg tgacagattt ctatccagcc cagatcaaag tccggtggtt    360
tcggaatgac caggaagaga cagctggcgt tgtgtccacc ccccttatta ggaacggtga    420
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag acgtctacac    480
ctgccacgtg gagcaccca gcctccagag cccatcacc gtggagtgg                    529

```

<210> 223  
 <211> 529  
 <212> DNA



<213> Homo sapiens

<400> 223

```

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120
gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcgcg ggatcttgca 240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300
caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag tccggtggtt 360
tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccctatta ggaatggtga 420
ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac 480
ctgccacgtg gagcaccca gcctccagag ccccatcacc gtggagtgg 529

```

<210> 224

<211> 529

<212> DNA

<213> Homo sapiens

<400> 224

```

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gacacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120
gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcgcg ggatcttgca 240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300
caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag tccggtggtt 360
tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccctatta ggaatggtga 420
ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac 480
ctgccacgtg gagcaccca gcctccagag ccccatcacc gtggagtgg 529

```

<210> 225

<211> 529

<212> DNA

<213> Homo sapiens

<400> 225

```

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gacacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120
gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agaggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagcgc ggatcctgca 240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300
caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag tccagtgtt 360
tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccctatta ggaatggtga 420
ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac 480
ctgccacgtg gagcaccca gcctccagag ccccatcacc gtggagtgg 529

```

<210> 226

<211> 289

<212> DNA

<213> Homo sapiens

<400> 226

```

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gacacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120
gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agaggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagcgc ggatcctgca 240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc 289

```

<210> 227  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<400> 227  
 gggcctgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gatacatcta 60  
 taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccggg cggtagacgc 120  
 gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agaggacccg 180  
 ggccgagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgc ggatcctgca 240  
 gaggagagtg gagccacag tgaccatctc cccatccagg acagaggcc 289

<210> 228  
 <211> 173  
 <212> DNA  
 <213> Homo sapiens

<400> 228  
 ggacggagcg cgtgcgtctt gtaaccagat acatctataa ccgagaggag tacgcgcgt 60  
 tcgacagcga cgtgggggtg taccgggcgg tgacccgca ggggcggcct gtcgccgagt 120  
 actggaacag ccagaaggaa gtcctggaga ggaccgggc ggagtggac acg 173

<210> 229  
 <211> 176  
 <212> DNA  
 <213> Homo sapiens

<400> 229  
 ggacggagcg cgtgcgtctt gtaaccagat acatctataa ccgagaggag tacgcgcgt 60  
 tcgacagcga cgtgggggtg taccgggcgg tgacccgca ggggcggcct gttgccgagt 120  
 actggaacag ccagaaggaa gtcctggaga ggaccgggc ggcggtggac aggggtg 176

<210> 230  
 <211> 236  
 <212> DNA  
 <213> Homo sapiens

<400> 230gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gacacatcta 60  
 taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120  
 gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg agaggacccg 180  
 ggccgagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgc ggatcc 236

<210> 231  
 <211> 236  
 <212> DNA  
 <213> Homo sapiens

<400> 231  
 gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gacacatcta 60  
 taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120  
 gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg aggggacccg 180  
 ggccgagttg gacacggtgt gcagacacaa ctacgaggtg gcgtccgcg ggatct 236

<210> 232

<211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 232  
 gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gatacatcta 60  
 taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccggg cggtgacgcc 120  
 gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agaggaccgg 180  
 ggccgagttg gacacggtgt gcagacacaa ctacgaggtg gggtaccgcg ggatcctgca 240  
 gaggagagtg gagccacag tgaccatctc ccatccagg acagaggccc tcaaccacca 300  
 caacctgtcg gtctgtcgg tgacagattt ctatccaggc cagatcaaag tccagtgggt 360  
 tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccccttatta ggaatggtga 420  
 ctggacttcc cagatcctgg tgatgtgga aatgactccc cagcgtggag atgtctacac 480  
 ctgccacgtg gagcaccca gcctccagag cccatcacc gtggagtgg 529

<210> 233  
 <211> 248  
 <212> DNA  
 <213> Homo sapiens

<400> 233  
 gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60  
 taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtgacgcc 120  
 gcagggggcgg cctagcgccg agtactggaa cagccagaag gaagtcctgg aggggaccgg 180  
 ggccgagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcttgca 240  
 gaggagag 248

<210> 234  
 <211> 244  
 <212> DNA  
 <213> Homo sapiens

<400> 234  
 gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60  
 taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtgacgcc 120  
 gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggaccgg 180  
 ggccgagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcttgca 240  
 gagg 244

<210> 235  
 <211> 248  
 <212> DNA  
 <213> Homo sapiens

<400> 235  
 gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gatacatcta 60  
 taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtgacgcc 120  
 gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggaccgg 180  
 ggccgagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcttgca 240  
 gaggagag 248

<210> 236  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 236

```

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gatacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccggg cggtagaccc 120
gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg aggggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagcccg ggatcctgca 240
gaggagagtg gagccacag tgaccatctc ccatccagg acagaggccc tcaaccacca 300
caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag tccagtgggt 360
tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccttatta ggaatgggta 420
ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac 480
ctgccacgtg gagcacccca gcctccagag cccatcacc gtggagtgg 529

```

&lt;210&gt; 237

&lt;211&gt; 234

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 237

```

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccggg cggtagaccc 120
gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg aggggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcccg ggat 234

```

&lt;210&gt; 238

&lt;211&gt; 248

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 238

```

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gacacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccggg cggtagaccc 120
gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcccg ggatcctgca 240
gaggagag 248

```

&lt;210&gt; 239

&lt;211&gt; 248

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 239

```

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccggg cggtagaccc 120
gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg agaggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagcccg ggatcctgca 240
gaggagag 248

```

&lt;210&gt; 240

&lt;211&gt; 248

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 240gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccggg cggtagaccc 120
gcagggggcgg cctgatgccg agaactggaa cagccagaag gaagtcctgg aggggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcccg ggatcctgca 240
gaggagag 248

```

<210> 241  
<211> 229  
<212> DNA  
<213> Homo sapiens

<400> 241  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gacacatcta 60  
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccggg cggtagacgc 120  
gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agggggcccc 180  
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccg 229

<210> 242  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 242  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gatacatcta 60  
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccggg cggtagacgc 120  
gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agaggaccg 180  
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcgcg ggatcttgca 240  
gaggag 246

<210> 243  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 243  
gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60  
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtatcggg cggtagacgc 120  
gctggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggaccg 180  
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcgcg ggatcttgca 240  
gaggag 248

<210> 244  
<211> 229  
<212> DNA  
<213> Homo sapiens

<400> 244  
gggcctgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60  
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120  
gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggaccg 180  
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcgcg 229

## SEQUENCE LISTING DR

<110> CANON KABUSHIKI KAISHA

<120> Probe set and method for identifying HLA allele

<130> g10003828DR

<150> JP2003-430558

<151> 2003-12-25

<160> 827

<170> PatentIn version 3.2

<210> 1

<211> 370<212> DNA

<213> Homo sapiens

<400> 1

```
atggtgtgtc tgaagctccc tggaggetcc tgcattgacag cgctgacagt gacactgatg    60
gtgctgagct cccactggc ttggtctggg gacacccgac cacgtttctt gtggcagctt    120
aagtttgaat gtcatttctt caatgggacg gagcgggtgc ggttgctgga aagatgcac    180
tataaccaag aggagtccgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg    240
gagctggggc ggctgatgc cgagtactgg aacagccaga aggacctcct ggagcagagg    300
cgggccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag cttcacagtg    360
cagcggcgag                                     370
```

<210> 2

<211> 270

<212> DNA

<213> Homo sapiens

<400> 2

```
cacgtttctt gtggcagctt aagtttgaat gtcatttctt caatgggacg gagcgggtgc    60
ggttgctgga aagatgcac tataaccaag aggaatccgt gcgcttcgac agcgacgtgg    120
gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga    180
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac aactacgggg    240
ttggtgagag cttcacagtg cagcggcgag                                     270
```

<210> 3

<211> 283

<212> DNA

<213> Homo sapiens

<400> 3

```
ggggacaccc gaccacgttt cttgtggcag ctttaagttg aatgtcattt cttcaatggg    60
acggagcggg tgcggttgct ggaaagatgc atctataacc aagaggagtc cgtgcgttc    120
gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctga tgccgagtac    180
tggaacagcc agaaggacct cctggagcag aggcggggcg cgttgacac ctattgcaga    240
cacaactacg gggctgtgga gagcttcaca gtgcagcggc gag                                     283
```

<210> 4

<211> 246

<212> DNA

<213> Homo sapiens

<400> 4

```
cacgtttctt gtggcagctt aagtttgaat gtcatttctt caatgggacg gagcgggtgc    60
```

ggttgctgga aagatgcac tataaccaag aggagtccgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagagg cgggccgagg tggacaccta ttgcagacac aactacgggg 240  
 ctgtgg 246

<210> 5  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 5  
 atggtgtgtc tgaagctccc tggaggctcc tgcattgacag cgctgacagt gacactgatg 60  
 gtgctgagct cccactggc tttggctggg gacacccgac cagtttctt gtggcagctt 120  
 aagtttgaat gtcatttctt caatgggacg gagcgggtgc gggtgctgga aagatgcac 180  
 tataaccaag aggagtccgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
 gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacatcct ggaagacgag 300  
 cgggccgagg tggacaccta ctgcagacac aactacgggg ttggtgagag cttcacagtg 360  
 cagcggcgag 370

<210> 6  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 6  
 ggggacaccc gaccacgttt cttgtggcag ctttaagttt aatgtcattt cttcaatggg 60  
 acggagcggg tgcggttctt ggaagatgc atctataacc aagaggagtc cgtgcgcttc 120  
 gacagcgacg tgggggagta cggggcggtg acggagctgg ggcggcctga tgccgagtag 180  
 tggaacagcc agaaggacct cctggagcag agggcgggcg cgggtggaaa ttactgcaga 240  
 cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 7  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 7  
 cagtttctt gtggcagctt aagtttgaat gtcatttctt caatgggacg gagcgggtgc 60  
 gggtgctgga aagatgcac tataaccaag aggagtccgt gcgcttcgac agcgacgtga 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 8  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 8  
 cagtttctt gtggcagctt aagtttgaat gtcatttctt caatgggacg gagcgggtgc 60  
 gggtgctgga aagatgcac tataaccaag aggagtccgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagggc cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 9  
 <211> 270  
 <212> DNA

<213> Homo sapiens

<400> 9

cacgtttctt gtgggagctt aagtttgaat gtcatttctt caatgggacg gagcgggtgc	60
ggttgctgga aagatgcac tataaccaag aggagtccgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc gccctgatgc cgagtactgg aacagccaga	180
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcggcgag	270

<210> 10

<211> 270

<212> DNA

<213> Homo sapiens

<400> 10

cacgtttctt gtggcagctt aagtttgaat gtcatttctt caatgggacg gagcgggtgc	60
ggttgctgga aagatgcac tataaccaag aggagtacgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc gccctgatgc cgagtactgg aacagccaga	180
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcggcgag	270

<210> 11

<211> 270

<212> DNA

<213> Homo sapiens

<400> 11

cacgtttctt gtggcagctt aagtttgaat gtcatttctt caatgggacg gagcgggtgc	60
ggttgctgga aagatgcac tataaccaag aggagtccgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc gccctgatgc cgagtactgg aacagccaga	180
aggacctcct ggagcagggc cgggccgcgg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcggcgag	270

<210> 12

<211> 270

<212> DNA

<213> Homo sapiens

<400> 12

cacgtttctt gtggcagctt aagtttgaat gtcatttctt caatgggacg gagcgggtgc	60
ggttgctgga aagatgcac tataaccaag aggagtccgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc gccctgatgc cgagtactgg aacagccaga	180
aggacctcct ggagcagaag cgggccgcgg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcggcgag	270

<210> 13

<211> 283

<212> DNA

<213> Homo sapiens

<400> 13

ggggacacca gaccacgtt cttggagtac tctacgtctg agtgcattt cttcaatggg	60
acggagcggg tgcgtacct ggacagatac ttccataacc aggaggagaa cgtgcgttc	120
gacagcgacg tgggggagtt cggggcgggt acggagctgg ggcggcctga tgccgagtac	180
tggaacagcc agaaggacct cctggagcag aagcggggcc gggtggacaa ctactgcaga	240
cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag	283

<210> 14

<211> 265



<212> DNA  
<213> Homo sapiens

<400> 14  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
gggagttccg ggcgggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagaag cggggccggg tggacaatta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcg 265

<210> 15  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 15  
ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg 60  
acggagcggg tgcggttcct ggagagatac ttccataacc aggaggagaa cgtgcgcttc 120  
gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctga tgccgagtac 180  
tggaacagcc agaaggacct cctggagcag aagcggggcc gggtggacaa ctactgcaga 240  
cacaactacg gggttggtga gagcttcaca gtgcagcggc gag 283

<210> 16  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 16  
ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg 60  
acggagcggg tgcggttcct ggagagatac ttccataacc aggaggagaa cgtgcgcttc 120  
gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctga tgccgagtac 180  
tggaacagcc agaaggacct cctggagcag aagcggggcc gggtggacaa ttactgcaga 240  
cacaactacg gggttggtga gagcttcaca gtgcagcggc gag 283

<210> 17  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 17  
tactctacgt ctgagtgtca ttcttcaat gggacggagc ggggtcggtt cctggagaga 60  
tacttcata accaggagga gaacgtgcgc ttcgacagcg acgtggggga gtaccgggcg 120  
gtgacggagc tggggcggcc tgatgccgag tactggaaca gccagaagga cctcctggag 180  
cagaagcggg gccgggtgga caactactgc agacacaact acggggttgt ggagagcttc 240  
acagtgcagc ggcga 255

<210> 18  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 18  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggtacctgga cagatacttc cataaccagg aggagtccgt gcgcttcgac agcgacgtgg 120  
gggagttccg ggcgggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag

270

&lt;210&gt; 19

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 19

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggcgag 270

&lt;210&gt; 20

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 20

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac aactacgggg 240  
ttgtggagag cttcacggtg cagcggcgag 270

&lt;210&gt; 21

&lt;211&gt; 258

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 21

ttcttggagt actctacgtc tgagtgtcat ttcttcaatg ggacggagcg ggtgcggtac 60  
ctggacagat acttcataa ccaggaggag aacgtgcgtc tcgacagcga cgtgggggag 120  
taccgggcgg tgacggagct gggggcgcct gatgccgagt actggaacag ccagaaggac 180  
ctcttggagc agaagcgggg cgggtggac aactactgca gacacaacta cggggttggtg 240  
gagagettca cagtgcag 258

&lt;210&gt; 22

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 22

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg 60  
acggagcggg tgcggttcct ggacagatac ttccataacc aggaggagaa cgtgcgcttc 120  
gacagcgacg tgggggagtt cggggcgggtg acggagctgg ggcggcctga tgccgagtac 180  
tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggaaa ctactgcaga 240  
cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

&lt;210&gt; 23

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 23

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg 60  
acggagcggg tgcggtacct ggacagatac ttccataacc aggaggagaa cgtgcgcttc 120

gacagcgacg tgggggagtt cggggcgggt acggagctgg ggcggcctga tgaggagtac 180  
 tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggaaa ctactgcaga 240  
 cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 24  
 <211> 258  
 <212> DNA  
 <213> Homo sapiens

<400> 24  
 ttggagtact ctactctga gtgtcatttc ttcaatggga cggagcgggt gcggtacctg 60  
 gacagatact tccataaccg ggaggagaaac gtgcgcttcg acagcgacgt gggggagttc 120  
 cgggcgggtga cggagctggg gcggcctgat gccgagtact ggaacagcca gaaggacctc 180  
 ctggagcaga agcggggccg ggtggacaac tactgcagac acaactacgg ggttggtgag 240  
 agcttcacag tgcagcgg 258

<210> 25  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 25  
 ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg 60  
 acggagcggg tgcgttacct ggacagatac ttccataacc aggaggagaa cgtgcgcttc 120  
 gacagcgacg tgggggagtt cggggcgggt acggagctgg ggcggcctgc tgcggagcac 180  
 tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggaaa ctactgcaga 240  
 cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 26  
 <211> 269  
 <212> DNA  
 <213> Homo sapiens

<400> 26  
 caggtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcgggtgac gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagaag cggggccagg tggacaacta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcga 269

<210> 27  
 <211> 240  
 <212> DNA  
 <213> Homo sapiens

<400> 27  
 ttggagtact ctactctga gtgtcatttc ttcaatggga cggagcgggt gcggtacctg 60  
 gacagatact tccataacca ggaggagaaac gtgcgcttcg acagcgacgt gggggagttc 120  
 cgggcgggtga cggagctggg gcggcctagc gccgagtact ggaacagcca gaaggacctc 180  
 ctggagcaga agcggggccg ggtggacaac tactgcagac acaactacgg ggttggtgag 240

<210> 28  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 28

cacgttttctt ggagtactct acgtctgagt gtcattttctt caatgggacg gagcgggtgc	60
ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg	120
gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtcttg aacagccaga	180
aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac aactacgggg	240
ttgtggagag cttcacagtg cagcggcgag	270

&lt;210&gt; 29

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 29

cacgttttctt ggagtactct acgtctgagt gtcattttctt caatgggacg gagcgggtgc	60
ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg	120
gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga	180
aggacctcct ggagcagaag cggggccggg tggacaccta ctgcagacac aactacgggg	240
ttgtggagag cttcacagtg cagcggcgag	270

&lt;210&gt; 30

&lt;211&gt; 269

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 30cacgttttctt ggagtactct acgtctgagt gtcattttctt caatgggacg gagcgggtgc 60

ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg	120
gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga	180
aggacctcct ggagcagaag cggggccggg tggacaccta ctgcagacac aactacgggg	240
ttgtggagag cttcacagtg cagcggcga	269

&lt;210&gt; 31

&lt;211&gt; 245

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 31

cacgttttctt ggagtactct acgtctgagt gtcattttctt caatgggacg gagcgggtgc	60
ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg	120
gggagttctg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga	180
aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac aactacgggg	240
ttgtg	245

&lt;210&gt; 32

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 32

cacgttttctt ggagtactct acgtctgagt gtcattttctt caatgggacg gagcgggtgc	60
ggttcttga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgagg gagctggggc ggcctgatgc cgagtactgg aacagccaga	180
aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg	240
ttgtgagag cttcacagtg cagcggcgag	270

&lt;210&gt; 33

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 33  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgc 120  
 gggagttccg ggcgggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagaag cggggccggg tggacaacta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 34  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 34  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcgggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacatctt ggagcagaag cggggccggg tggacaacta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 35  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 35  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcgggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagaag cggggccggg tggacaacta ctgcagacac aactacgggg 240  
 ctgtggagag cttcacagtg cagcgg 266

<210> 36  
 <211> 267  
 <212> DNA  
 <213> Homo sapiens

<400> 36  
 cgtttcttgg agtactctac gtctgagtgt cattttctca atgggacgga gcgggtgcgg 60  
 ttcttgga cagatacttc taaccaggag gatttcgtgc gcttcgacag cgacgtgggg 120  
 gatttcggg cggtgacgga gctggggcgg cctgatgccg agtactggaa cagccagaag 180  
 gacctcttgg agcagaagcg gggccgggtg gacaactact gcagacacaa ctacgggggt 240  
 gtggagagct tcacagtga gcggcga 267

<210> 37  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 37  
 tttcttgag tactctacgt ctgagtgtca tttcttcaat gggacggagc ggggtgcgta 60  
 cctggacaga tacttcgata accaggagga gaacgtgcgc ttcgacacg acgtggggga 120  
 gttccgggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca gccagaagga 180  
 cctcttgag cagaagcggg gccgggtgga caactactgc agacacaact acgggggtgt 240  
 ggagagcttc acagtgcagc ggcgag 266

<210> 38

<211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 38  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggtacctgga cagatacttc cataaccggg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 39  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 39  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 40  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 40  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggtacctgga cagatacttc cataaccagg aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 41  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 41  
 atggtgtgtc tgaagttccc tggaggctcc tgcattggcag ctctgacagt gacactgatg 60  
 gtgtgagct cccactggc tttgctggg gacaccgac cacgtttctt ggagcaggtt 120  
 aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttctctgga cagatacttc 180  
 taccaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
 gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacctcct ggagcagaag 300  
 cgggcccggg tggacaccta ctgcagacac aactacgggg ttggtgagag cttcacagtg 360  
 cagcggcgag 370

<210> 42  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 42  
 cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc taccaccaag aagagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagaag cgggcccggg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 43  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 43  
 atggtgtgtc tgaagttccc tggaggctcc tgcattggcag ctctgacagt gacactgatg 60  
 gtgctgagct cccactggc ttggctggg gacacccgac cacgtttctt ggagcaggtt 120  
 aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttcttga cagatacttc 180  
 tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
 gagctggggc ggctgatgc cgagtactgg aacagccaga aggacctct ggaagacgag 300  
 cgggccgagg tggacaccta ctgcagacac aactacgggg ttgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 44  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 44  
 ggggacaccc gaccacgttt cttggagcag gttaaactat agtgtcattt cttcaacggg 60  
 acggagcggg tgcggttctt ggacagatac ttctatcacc aagaggagta cgtgcgcttc 120  
 gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctga tgccgagtac 180  
 tggaacagcc agaaggacct cctggagcag aggcgggccg aggtggacac ctactgcaga 240  
 cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 45  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 45  
 cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttcttga cagatacttc tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggctgacgc tgagtactgg aacagccaga 180  
 aggacctct ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 46  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 46  
 atggtgtgtc tgaagttccc tggaggctcc tgcattggcag ctctgacagt gacactgatg 60  
 gtgctgagct cccactggc ttggctggg gacacccgac cacgtttctt ggagcaggtt 120  
 aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttcttga cagatacttc 180  
 tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
 gagctggggc ggctgatgc cgagtactgg aacagccaga aggacctct ggagcagagg 300  
 cgggccgagg tggacaccta ctgcagacac aactacgggg ttgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 47  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<400> 47

ggggacaccc gaccacgttt cttggagcag gttaaacaatg agtgtcattt cttcaacggg 60  
 acggagcggg tgcggttctt ggacagatac ttctatcacc aagaggagta cgtgcgcttc 120  
 gacagcgacg tgggggagta cggggcgggtg acggagctgg ggcggcctag cgccgagtac 180  
 tggaacagcc agaaggacct cctggagcag aggcggggccg cgggtggacac ctactgcaga 240  
 cacaactacg gggttgggtga gagcttcaca gtgcagcggc ga 282

<210> 48  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 48  
 cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc taccaccaag aggagtacgt gcggttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 49  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 49  
 cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc taccaccaag aggagtacgt gcggttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 50  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 50cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc taccaccaag aggagtacgt gcggttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacggtg cagcggcgag 270

<210> 51  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 51  
 ggggacaccc gaccacgttt cttggagcag gttaaacaatg agtgtcattt cttcaacggg 60  
 acggagcggg tgcggttctt ggacagatac ttctatcacc aagaggagtc cgtgcgcttc 120  
 gacagcgacg tgggggagta cggggcgggtg acggagctgg ggcggcctga tgccgagtac 180  
 tggaacagcc agaaggacct cctggagcag aggcggggccg aggtggacac ctactgcaga 240  
 cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 52  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens



&lt;400&gt; 52

ggggacaccc gaccacgttt cttggagcag gttaaacaatg agtgtcattt cttcaacggg 60  
 acggagcggg tgcggttctt ggacagatac ttctatcacc aagaggagta cgtgcgttc 120  
 gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctga tgccgagtac 180  
 tggaacagcc agaaggacct cctggagcag aggcggggccg aggtggacac ctactgcaga 240  
 cacaactacg ggggttggtga gagcttcaca gtgcagcggc ga 282

&lt;210&gt; 53

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 53

cacttttctt ggagcaggtt aaacatgagt gtcattttctt caacgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcgggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagaga cgggcccagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcgg 266

&lt;210&gt; 54

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 54

tttcttgag caggttaaac atgagtgtca tttcttcaac gggacggagc ggggtgcggtt 60  
 cctggacaga tacttctatc accaagagga gtacgtgcgc ttgacagcg acgtggggga 120  
 gtaccggcg gtgacggagc tggggcgccc tgatgccgag tactggaaca gccagaagga 180  
 cctcttgag cagagggcggg ccgcggtgga cacctactgc agacacaact acgggggttg 240  
 tgagagcttc acagtgcagc ggcgag 266

&lt;210&gt; 55

&lt;211&gt; 225

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 55

tgagtgtcat ttcttcaac ggacggagcg ggtgcggttc ctggacagat acttctatca 60  
 ccaagaggag tacgtgcgct tcgacagcga cgtgggggag taccgggcgg tgacggagct 120  
 ggggcggcct agcggcgagt actggaacag ccagaaggac ctctggagc agaagcgggc 180  
 cgcggtggac acctactgca gacacaacta cgggggttgt gagag 225

&lt;210&gt; 56

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 56

tttcttgag caggttaaac atgagtgtca tttcttcaac gggacggagc ggggtgcggtt 60  
 cctggacaga tacttctatc accaagagga gtacgtgcgc ttgacagcg acgtggggga 120  
 gtaccggcg gtgacggagc tggggcgccc tagcggcgag tactggaaca gccagaagga 180  
 cctcttgag cagagggcggg ccgcggtgga cacctactgc agacacaact acgggggtgt 240  
 ggagagcttc acagtgcagc ggcgag 266

&lt;210&gt; 57

<211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 57  
 atggtgtgtc tgaagttccc tggaggctcc tgcattggcag ctctgacagt gacactgatg 60  
 gtgctgagct cccactggc ttggctggg gacacccgac cacgtttctt ggagcaggtt 120  
 aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttcttga cagatacttc 180  
 tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg ggcgggtgacg 240  
 gagctggggc ggcttagcgc cgagtactgg aacagccaga aggacctctt ggagcagagg 300  
 cgggccgagg tggacaccta ctgcagacac aactacgggg ttgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 58  
 <211> 261  
 <212> DNA  
 <213> Homo sapiens

<400> 58  
 ttcttgagc aggttaaaca tgagtgtcat ttcttcaacg ggacggagcg ggtgcggttc 60  
 ctggacagat acttctatca ccaagaggag tacgtgcgct tcgacagcga cgtggggggag 120  
 taccgggcgg tgacggagct ggggcggcct agcggcgagt actggaacag ccagaaggac 180  
 atcttgaag acaggcgggc cctggtggac acctactgca gacacaacta cggggttgtg 240  
 gagagcttca cagtgcagcg g 261

<210> 59  
 <211> 234  
 <212> DNA  
 <213> Homo sapiens

<400> 59  
 catgagtgtc atttctcaa cgggacggag cgggtgcggt tcttgacag atacttctat 60  
 caccaagagg agtacgtgcg ctctgacagc gacgtggggg agtaccgggc ggtgacggag 120  
 ctggggcggc ctgatgccga gtactggaac agccagaagg acctcttga gcagaagcgg 180  
 gccgcggtgg acacctactg cagacacaac tacgggggtg tggagagctt caca 234

<210> 60  
 <211> 225  
 <212> DNA  
 <213> Homo sapiens

<400> 60tgagtgtcat ttcttcaacg ggacggagcg ggtgcggttc ctggacagat acttctatca 60  
 ccaagaggag tacgtgcgct tcgacagcga cgtggggggag taccgggcgg tgacggagct 120  
 ggggcggcct gatgccgagt actggaacag ccagaaggac atcttgaag acgagcgggc 180  
 cgcggtggac acctactgca gacacaacta cggggttggg gagag 225

<210> 61  
 <211> 250  
 <212> DNA  
 <213> Homo sapiens

<400> 61  
 cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttcttga cagatacttc tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcgggtgacg gagctggggc ggctgatga ggagtactgg aacagccaga 180  
 aggacttctt ggaagacagg cgggcggcgg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag 250

<210> 62  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

<400> 62  
 atgagtgtca tttcttcaac gggacggagc ggggtgcggtt cctggacaga tacttctatc 60  
 accaagagga gtacgtgcgc ttcgacagcg acgtggggga gtaccgggcg gtgacggagc 120  
 tggggcggcc tgatgccag tactggaaca gccagaagga cctcctggag cagaagcggg 180  
 ccgcggtgga cacctactgc agacacaact acggggttgg tg 222

<210> 63  
 <211> 221  
 <212> DNA  
 <213> Homo sapiens

<400> 63  
 atgagtgtca tttcttcaac gggacggagc ggggtgcggtt cctggacaga tacttctatc 60  
 accaagagga gtacgtgcgc ttcgacagcg acgtggggga gtaccgggcg gtgacggagc 120  
 tggggcggcc tagcggcg tactggaaca gccagaagga cctcctggag cagagggcggg 180  
 ccgaggtgga cacctactgc agacacaact acggggttgg t 221

<210> 64  
 <211> 238  
 <212> DNA  
 <213> Homo sapiens

<400> 64  
 atgagtgtca tttcttcaac gggacggagc ggggtgcggtt cctggacaga tacttctatc 60  
 accaagagga gtacgtgcgc ttcgacagcg acgtggggga gtaccgggcg gtgacggagc 120  
 tggggcggcc tgatgccag tactggaaca gccagaagga catcctggaa gacagggcggg 180  
 ccctggtgga cacctactgc agacacaact acggggttgg ggagagcttc acagtgca 238

<210> 65  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 65  
 tttcttggag caggttaaac atgagtgtca tttcttcaac gggacggagc ggggtgcggtt 60  
 cctggacaga tacttctatc accaagagga gtccgtgcgc ttcgacagcg acgtggggga 120  
 gtaccgggcg gtgacggagc tggggcggcc tgatgccag tactggaaca gccagaagga 180  
 cctcctggag cagagggcggg ccgcggtgga cacctactgc agacacaact acggggttgg 240  
 tgagagcttc acagtgcagc ggcgag 266

<210> 66  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

<400> 66  
 atgagtgtca tttcttcaac gggacggagc ggggtgcggtt cctggacaga tacttctatc 60  
 accaagagga gtccgtgcgc ttcgacagcg acgtggggga gtaccgggcg gtgacggagc 120  
 tggggcggcc tgatgccag tactggaaca gccagaagga cctcctggag cagagggcggg 180  
 ccgaggtgga cacctactgc agacacaact acggggttgg tg 222

<210> 67  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
 gagcagggtta aacatgagtg tcattttctt aacgggacgg agcgggtgcg gttcctggac 60  
 agatacttct atcaccaaga ggagtccgtg cgcttcgaca gcgacgtggg ggagtaccgg 120  
 gcggtgacgg agctggggcg gcctgatgcc gactactgga acagccagaa ggacctctg 180  
 gagcagaagc gggccgcggt ggacacctac tgcagacaca actacggggt tggtagagagc 240  
 ttcacagtg 249

<210> 68  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
 gagcagggtta aacatgagtg tcattttctt aacgggacgg agcgggtgcg gttcctggac 60  
 agatacttct atcaccaaga ggagtacgtg cgcttcgaca gcgacgtggg ggagtaccgg 120  
 gcggtgacgg agctggggcg gcctgatgcc gactactgga acagccagaa ggacctctg 180  
 gagcagaagc ggggcccgggt ggacaactac tgcagacaca actacggggt tggtagagagc 240  
 ttcaca 246

<210> 69  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 69  
 cacgtttctt ggagcaggtt aaacatgagt gtcattttctt caacgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagagg cgggcccggg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag attcacagtg cagcggcgag 270

<210> 70  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 70cacgtttctt ggagcaggtt aaacatgagt gtcattttctt caacgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcttagcgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcggagg cgggcccggg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 71  
 <211> 242  
 <212> DNA  
 <213> Homo sapiens

<400> 71  
 ttggagcagg ttaaacaatga gtgtcatttc ttcaacggga cggagcgggt gcggttctg 60  
 gacagatact tctatacca agaggagtac gtgcgttcg acagcgacgt gggggagtac 120  
 cgggcgggtga cggagctggg gcggcctgat gccgagtact ggaacagcca gaaggacttc 180  
 ctggaagaca ggcgggcctt ggtggacacc tactgcagac acaactacgg ggttgggag 240  
 ag 242

<210> 72  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 72  
cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
ggttcttgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctgatac cgagtactgg aacagccaga 180  
aggacctcct ggagcagaag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtg 246

<210> 73  
<211> 260  
<212> DNA  
<213> Homo sapiens

<400> 73  
cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
ggttcttgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
ctgtggagag cttcacagtg 260

<210> 74  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 74  
cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
ggttcttgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagttccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 75  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 75  
cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
ggttcttgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgatg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 76  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 76  
cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
ggttcttgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggtggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 77  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 77  
 cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 78  
 <211> 240  
 <212> DNA  
 <213> Homo sapiens

<400> 78  
 ttggagcagg taaacatga gtgtcatttc ttcaacggga cggagcgggt gcggttcctg 60  
 gacagatact tctatcacca agaggagtac gtgcgcttcg acagcgacgt gggggagtac 120  
 cgggcgggtga cggagctggg gcggcctgat gccgagtact ggaacagcca gaaggacctc 180  
 ctggagcaga ggcaggccgc ggtggacacc tactgcagac acaactacgg ggttgtggag 240

<210> 79  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 79  
 cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc taccaccaag aggagtacgt gcacttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagaag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 80  
 <211> 243  
 <212> DNA  
 <213> Homo sapiens

<400> 80tttcttggag caggttaaac ctgagtgtca tttcttcaac gggacggagc ggggtcggtt 60  
 cctggacaga tacttctatc accaagagga gtacgtgcgc ttgcagacgc acgtggggga 120  
 gtaccgggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca gccagaagga 180  
 cctcctggag cagaagcggg ccgcggtgga cacctactgc agacacaact acgggggttg 240  
 tga 243

<210> 81  
 <211> 260  
 <212> DNA  
 <213> Homo sapiens

<400> 81  
 cacgtttctt ggagcagggt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagaag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg 260

<210> 82  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 82  
cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
aggacttctt ggaagacagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggcgag 270

<210> 83  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 83  
cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
aggacctctt ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggcgag 270

<210> 84  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 84  
cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
aggacatctt ggagcagaag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 85  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 85  
cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggactaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
aggacctctt ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcgg 266

<210> 86  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 86  
cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgatgg cgagtactgg aacagccaga 180  
aggacctctt ggagcagagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcgg 266

<210> 87  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 87  
 cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc taccaccaag aggagtagct gcgttcgac agcgactgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcgg 266

<210> 88  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 88  
 cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc taccaccaag aggagtagct gcgttcgac agcgactgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 89  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 89  
 cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc taccaccaag aggagtagct gcgttcgac agcgactgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcgg 266

<210> 90  
 <211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 90cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc taccaccaag aggagtagct gcgttcgac agcgactgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagagg cgggccgagg tggacaatta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagc 264

<210> 91  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 91  
 atggtgtgtc tgaagctccc tggaggctcc tgcattggcag ctctgacagt gacactgatg 60  
 gtgctgagct cccactggc tttggctggg gacaccaac cacgtttcct gtggcagggt 120  
 aagtataagt gtcatttctt caacgggacg gagcgggtgc agttcctgga aagactcttc 180  
 tataaccagg aggagttcgt gcgttcgac agcgactgg gggagtaccg ggcggtgacg 240



gagctagggc ggcctgtcgc cgagtcttgg aacagccaga aggacatcct ggaggacagg 300  
 cggggccagg tggacaccgt gtgcagacac aactacgggg ttggtgagag cttcacagtg 360  
 cagcggcgag 370

<210> 92  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 92  
 cacgtttcct gtggcagggt aaatataagt gtcatttctt caacgggacg gagcgggtgc 60  
 agttcttgga aagactcttc tataaccagg aggagtctgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctagggc ggcctgtcgc cgagtcttgg aacagccaga 180  
 aggacatcct ggaggacagg cggggccagg tggacaccgt gtgcagacac aactacgggg 240  
 ttggtg 246

<210> 93  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 93  
 cacgtttcct gtggcagggt aagtataagt gtcatttctt caacgggacg gagcgggtgc 60  
 agttcttgga aagtctcttc tataaccagg aggagtctgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctagggc ggcctgtcgc cgagtcttgg aacagccaga 180  
 aggacatcct ggaggacagg cggggccagg tggacaccgt gtgcagacac aactacgggg 240  
 ttggtg 246

<210> 94  
 <211> 247  
 <212> DNA  
 <213> Homo sapiens

<400> 94  
 ttctctgtgg cagggttaagt ataagtgtca ttcttcaac gggacggagc ggggtgcagtt 60  
 cctggaaaga ctcttctata accaggagga gttcgtgcgc ttcgacagcg acgtggggga 120  
 gtaccgggcg gtgacggagc tagggcggcc tgcgccgag tcttgggaaca gccagaagga 180  
 catcctggag gacaggcggg gccaggtgga caattactgc agacacaact acgggggttg 240  
 tgagagc 247

<210> 95  
 <211> 258  
 <212> DNA  
 <213> Homo sapiens

<400> 95  
 cacgtttcct gtggcagggt aagtataagt gtcatttctt caacgggacg gagcgggtgc 60  
 agttcttgga aagactcttc tataaccagg aggagtctgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctagggc ggcctgtcgc cgagtcttgg aacagccgga 180  
 aggacatcct ggaggacagg cggggccagg tggacaccgt gtgcagacac aactacgggg 240  
 ttggtgagag cttcacag 258

<210> 96  
 <211> 250  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 96

cacgtttcct gtggcagggt aagtataagt gtcatttctt caacgggacg gagcgggtgc	60
agttcctgga aagactcttc tataaccagg aggagttcgt gcgttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctagggc ggcttctgc ggagtactgg aacagccaga	180
aggacatcct ggaggacagg cggggccagg tggacaccgt gtgcagacac aactacgggg	240
ttggtgagag	250

&lt;210&gt; 97

&lt;211&gt; 260

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 97

cacgtttcct gtggcagggt aagtataagt gtcatttctt caacgggacg gagcgggtgc	60
agttcctgga aagactcttc tataaccagg aggagttcgt gcgttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctagggt ggcttctgc cgagtcttg aacagccaga	180
aggacatcct ggaggacagg cggggccagg tggacaccgt gtgcagacac aactacgggg	240
ttggtgagag cttcacagt	260

&lt;210&gt; 98

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 98

ggggacaccc gaccacgttt cttggagtac tctacgggtg agtggtattt cttcaatggg	60
acggagcggg tgcggttctt ggacagatac ttctataacc aagaggagta cgtgcgttc	120
gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctag cgccgagtac	180
tggaacagcc agaaggactt cctggaagac aggcggggccc tgggtggacac ctactgcaga	240
cacaactacg gggttggtga gagcttcacg gtgcagcggc gag	283

&lt;210&gt; 99

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 99

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc	60
ggttcctgga cagatatttc tataaccaag aggagtacgt gcgttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggcttagcgc cgagtactgg aacagccaga	180
aggacttctt ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacggtg cagcggcgag	270

&lt;210&gt; 100

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 100atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt gacactgatg	60
gtgctgagct cccactggc ttggctggg gacaccagac cacgtttctt ggagtactct	120
acgggtgagt gttatttctt caatgggacg gagcgggtgc ggttcctgga cagatacttc	180
tataaccaag aggagtacgt gcgttcgac agcgacgtgg gggagtaccg ggcggtgacg	240
gagctggggc ggcttgatgc cgagtactgg aacagccaga aggacttctt ggaagacagg	300
cgggccctgg tggacaccta ctgcagacac aactacgggg ttggtgagag cttcacggtg	360
cagcggcgag	370

&lt;210&gt; 101

&lt;211&gt; 270

<212> DNA  
<213> Homo sapiens

<400> 101  
cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacttctt ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 102  
<211> 258  
<212> DNA  
<213> Homo sapiens

<400> 102  
cgtttcttgg agtactctac gggtagtgt tatttcttca atgggacgga gcgggtgcgg 60  
ttcctggaca gatacttcta taaccaagag gagtacgtgc gcttcgacag cgacgtgggg 120  
gagtaccggg cggtagacaga gctggggcgg cctgatgccg agtactggaa cagccagaag 180  
gacttcttgg aagacaggcg ggccttgtg gacacctact gcagacacaa ctacggggtt 240  
ggtgagagct tcacggtg 258

<210> 103  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 103  
ggggacacca gaccacgttt ctggagtac tctacgggtg agtggtattt cttcaatggg 60  
acggagcggg tgcggttctt ggacagatac ttctataacc aagaggagta cgtgcgcttc 120  
gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctag cgccgagtac 180  
tggaacagcc agaaggacat cctggaagac aggcggggccc tggtaggacac ctactgcaga 240  
cacaactacg gggttggtga gagcttcaca gtgcagcggc gag 283

<210> 104  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 104  
ggggacacca gaccacgttt ctggagtac tctacgggtg agtggtattt cttcaatggg 60  
acggagcggg tgcggttctt ggacagatac ttctataacc aagaggagta cgtgcgcttc 120  
gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga tgcgagtac 180  
tggaacagcc agaaggactt cctggaagac aggcggggccc tggtaggacac ctactgcaga 240  
cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 105  
<211> 228  
<212> DNA  
<213> Homo sapiens

<400> 105  
ttcaatggga cggagcgggt gcggttctg gacagatact tctataacca agaggagtac 60  
gtgcgcttcg acagcgacgt gggggagtac cgggcgggtga cggagctggg ggcgcctgat 120  
gccgagtact ggaacagcca gaaggacttc ctggaagaca ggcggggcct ggtggacacc 180  
tactgcagac acaactacgg ggtgttgag agcttcacag tgcagcgg 228

<210> 106  
 <211> 269  
 <212> DNA  
 <213> Homo sapiens

<400> 106  
 cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacttctt ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
 ttgttgagag cttcacggtg cagcggcga 269

<210> 107  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 107  
 cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacttctt ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
 ttgttgagag cttcacggtg cagcggcga 270

<210> 108  
 <211> 245  
 <212> DNA  
 <213> Homo sapiens

<400> 108  
 cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
 aggacttctt ggaagacagg cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
 ttggt 245

<210> 109  
 <211> 271  
 <212> DNA  
 <213> Homo sapiens

<400> 109  
 ccacgtttct tggagtactc tacgggtgag tgttatttct tcaatgggac ggagcgggtg 60  
 cggttcctgg acagatactt ctataaccaa gaggagtacg tgcgcttcga cagcgacgtg 120  
 ggggagtacc ggcggtgac ggagctgggg cggcctagcg ccgagtactg gaacagccag 180  
 aaggacttcc tggagacag gcgggccctg gtggacacct actgcagaca caactacggg 240  
 gttgtggaga gttcacagt gcagcggcga g 271

<210> 110  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 110cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgttgc cgagtactgg aacagccaga 180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacgggtg cagcggcgag 270

<210> 111  
 <211> 240  
 <212> DNA  
 <213> Homo sapiens

<400> 111  
 ttggagtact ctacgggtga gtgttatttc ttcaatggga cggagcgggt gcggttcctg 60  
 gacagatact tctataacca agaggagtac gtgcgcttcg acagcgacgt gggggagtac 120  
 cgggcgggtga cggagctggg gcggcctgct gcggagcact ggaacagcca gaaggacttc 180  
 ctggaagaca ggcggggcct ggtggacacc tactgcagac acaactacgg ggttggtgag 240

<210> 112  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 112  
 cagctttcct ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacgggtg cagcggcgag 270

<210> 113  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 113  
 cagctttcct ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
 aggacatcct ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 114  
 <211> 260  
 <212> DNA  
 <213> Homo sapiens

<400> 114  
 cagctttcct ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgctgc cgagtactgg aacagccaga 180  
 aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacgggtg 260

<210> 115  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 115  
 cagctttcct ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
 aggacatcct ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240

ctgtggagag cttcacagtg cagcggcgag

270

&lt;210&gt; 116

&lt;211&gt; 254

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 116

tcttgagta ctctacgggt gagtgttatt tcttcaatgg gacggagcgg gtgcggttcc	60
tggacagata cttctataac caagaggagt acgtgcgctt cgacagcgac gtgggggag	120
accgggcggt gacggagctg gggcggcctg atgccgagta ctggaacagc cagaaggacc	180
tcttgaaga caggcgggcc ctggtggaca cctactgcag acacaactac ggggttggtg	240
agagcttcac ggtg	254

&lt;210&gt; 117

&lt;211&gt; 260

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

cacgtttctt ggagtactct aggggtgagt gttatttctt caatgggacg gagcgggtgc	60
ggttcttga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga	180
aggacatctt ggaagacagg cgggccttgg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg	260

&lt;210&gt; 118

&lt;211&gt; 242

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

tttcttgag tactctacgg gtgagtgtta tttcttcaat gggacggagc ggggtgcggt	60
cctggacaga tacttctata accaagagga gtacgtgcgc ttcgacagcg acgtggggga	120
gtaccgggcg gtacgggagc tggggcggcc tgatgcggag cactggaaca gccagaagga	180
catcttgaa gacaggcggg cctggttga cacctactgc agacacaact acggggttgg	240
tg	242

&lt;210&gt; 119

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 119

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc	60
ggttcttga cagatacttc tataaccaag aggaggacgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga	180
aggacttctt ggaagacagg cgggccttgg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacggtg cagcggcgag	270

&lt;210&gt; 120

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 120	cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc	60
	ggttcttga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg	120
	gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga	180

aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
ttggtg 246

<210> 121  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 121  
cacgtttcct ggagtactct acgggtgagt gttatttcct caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
aggacatcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 122  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 122  
tttcttgag tactctacgg gtgagtgtta tttcttcaat gggacggagc gggcgcggtt 60  
cctggacaga tactctata accaagagga gtacgtgcgc ttcgacagcg acgtggggga 120  
gtaccgggcg gtgacggagc tggggcggcc tatcggcag tactggaaca gccagaagga 180  
catcctggaa gacaggcggg cctggtgga cacctactgc agacacaact acgggggttg 240  
tgagagcttc acagtgc 257

<210> 123  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 123  
cacgtttcct ggagtactct acgtctgagt gtcatttcct caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggcga 269

<210> 124  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 124  
cacgtttcct ggagtactct atgggtgagt gttatttcct caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacgtg cagcggcga 269

<210> 125  
<211> 270  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 125

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc	60
ggttcttgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga	180
aggacttctt ggaagacagg cgggcctggg tggacaccta ctgcagacac aactacgggg	240
ctgtggagag cttcacagtg cagcggcgag	270

&lt;210&gt; 126

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 126

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc	60
ggttcttgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtga	120
gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga	180
aggacatctt ggaagacagg cgggcctggg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcggcgag	270

&lt;210&gt; 127

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 127

cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc	60
ggttcttgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga	180
aggacttctt ggaagacagg cgggccgcgg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcgg	266

&lt;210&gt; 128

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 128

ggggacaccc aaccacgttt cttgaagcag gataagtttg agtgtcattt cttcaacggg	60
acggagcggg tgcggtatct gcacagaggc atctataacc aagaggagaa cgtgcgcttc	120
gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctgt cgccgagtcc	180
tggaacagcc agaaggactt cctggagcgg aggcgggccc aggtggacac cgtgtgcaga	240
cacaactacg gggttggtga gagcttcaca gtgcagaggc gag	283

&lt;210&gt; 129

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 129

cacgtttctt gaagcaggat aagtttgagt gtcatttctt caacgggacg gagcgggtgc	60
ggtatctgca cagaggcatc tataaccaag aggagaacgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga	180
aggacttctt ggagcggagg cgggccgagg tggacaccgt gtgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagaggcgag	270

&lt;210&gt; 130

&lt;211&gt; 370

&lt;212&gt; DNA



<213> Homo sapiens

<400> 130

```

atggtgtgtc tgaggtccc tggaggtccc tgcattggcag ttctgacagt gacactgatg      60
gtgctgagct cccactggc ttggctggg gacaccagac cacgtttctt ggaggaggt      120
aagtttgagt gtcatttctt caacgggacg gagcgggtgc ggttgctgga aagacgcgtc      180
cataaccaag aggagtacgc gcgtacgac agcgacgtgg gggagtaccg ggcggtgacg      240
gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacctcct ggagcggagg      300
cgtgccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag cttcacagtg      360
cagcggcgag                                     370

```

<210> 131

<211> 270

<212> DNA

<213> Homo sapiens

<400> 131

```

cacgtttctt ggaggaggtt aagtttgagt gtcatttctt caacgggacg gagcgggtgc      60
ggttgctgga aagacgcgtc cataaccaag aggagtacgc gcgtacgac agcgacgtgg      120
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga      180
aggacctcct ggagcggagg cgcgccgcgg tggacaccta ctgcagacac aactacgggg      240
ttggtgagag cttcacagtg cagcggcgag                                     270

```

<210> 132

<211> 370

<212> DNA

<213> Homo sapiens

<400> 132

```

atggtgtgtc tgaggtccc tggaggtccc tgcattggcag ttctgacagt gacactgatg      60
gtgctgagct cccactggc ttggctggg gacaccagac cacgtttctt ggagtactct      120
acgtctgagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga cagatacttc      180
tataaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtccg ggcggtgacg      240
gagctggggc ggcctgatga ggagtactgg aacagccaga aggacttcct ggaagacagg      300
cgggccgcgg tggacaccta ctgcagacac aactacgggg ttggtgagag cttcacagtg      360
cagcggcgag                                     370

```

<210> 133

<211> 283

<212> DNA

<213> Homo sapiens

<400> 133

```

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg      60
acggagcggg tgcggttctt ggacagatac ttctataacc aagaggagta cgtgcgcttc      120
gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctga tgaggagtac      180
tggaacagcc agaaggactt cctggaagac aggcgggccg cgggtggacac ctactgcaga      240
cacaactacg gggttggtga gagcttcacg gtgcagcggc gag                                     283

```

<210> 134

<211> 270

<212> DNA

<213> Homo sapiens

<400> 134

```

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc      60
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg      120
gggagtccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg aacagccaga      180
aggacttcct ggaagacagg cgcgccgcgg tggacaccta ctgcagacac aactacgggg      240

```

ttggtgagag cttcacagtg cagcggcgag

270

<210> 135

<211> 268

<212> DNA

<213> Homo sapiens

<400> 135

cgtttcttgg agtactctac gtctgagtgt cattttctca acgggacgga gcgggtgcgg 60  
 ttcctggaca gatacttcta taaccaagag gactacgtgc gcttcgacag cgacgtgggg 120  
 gaggttccggg cggtagcgga gctggggcgg cctgatgagg agtactggaa cagccagaag 180  
 gacttcttgg aagacaggcg ggccgcggtg gacacctact gcagacacaa ctacgggggtt 240  
 ggtgagagct tcacagtga cggcgag 268

<210> 136

<211> 283

<212> DNA

<213> Homo sapiens

<400> 136

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg 60  
 acggagcggg tgcggttctt ggacagatac ttctataacc aagaggagta cgtgcgcttc 120  
 gacagcgacg tgggggagtt cggggcgggtg acggagctgg ggcggcctga tgaggagtac 180  
 tggaacagcc agaaggacat cctggaagac gagcggggccg cggtagacac ctactgcaga 240  
 cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 137

<211> 370

<212> DNA

<213> Homo sapiens

<400> 137

atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt gacactgatg 60  
 gtgctgagct cccactggc ttggctggg gacaccagac caggtttctt ggagtactct 120  
 acgtctgagt gtcatttctt caatgggacg gagcgggtgc ggttcttga cagatacttc 180  
 tataaccaag aggagtacgt gcgttcgac agcgacgtgg gggagtccg ggcggtgacg 240  
 gagctggggc ggctgatga ggagtactgg aacagccaga aggacttcct ggaagacag 300  
 cgggcccggg tggacaccta ctgcagacac aactacgggg ttgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 138

<211> 370

<212> DNA

<213> Homo sapiens

<400> 138

atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt gacactgatg 60  
 gtgctgagct cccactggc ttggctggg gacaccagac caggtttctt ggagtactct 120  
 acgtctgagt gtcatttctt caatgggacg gagcgggtgc ggttcttga cagatacttc 180  
 tataaccaag aggagtacgt gcgttcgac agcgacgtgg gggagtccg ggcggtgacg 240  
 gagctggggc ggctgatga ggagtactgg aacagccaga aggacttcct ggaagacag 300  
 cgggcccggg tggacaccta ctgcagacac aactacgggg ttgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 139

<211> 283

<212> DNA

<213> Homo sapiens

&lt;400&gt; 139

ggggacacca gaccacgttt cttggagtag tctacgtctg agtgcattt cttcaatggg	60
acggagcggg tgcggttctt ggacagatac ttctataacc aagaggagta cgtgcgttc	120
gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctga tgaggagtag	180
tggaacagcc agaaggactt cctggaagac aggcgggccc cggtggacac ctactgcaga	240
cacaactacg gggttgtgga gagcttcacg gtgcagcggc gag	283

&lt;210&gt; 140

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 140ccacgtttct tggagtactc tacgggtgag tgctatttct tcaatgggac ggagcgggtg	60
cggttccttg acagatactt ctataaccaa gaggagtacg tgcgcttga cagcgacgtg	120
ggggagttcc ggcgggtgac ggagctgggg cggcctgatg aggagtactg gaacagccag	180
aaggacttcc tggaagacag gcgggcccgc gtggacacct actgcagaca caactacggg	240
gttggtgaga gcttcacagt gcagcggcga	270

&lt;210&gt; 141

&lt;211&gt; 268

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 141

cgtttcttgg agtactctac gtctgagtgt catttttca atgggacgga gcgggtgcgg	60
ttcttgga gatacttcta taaccaagag gtagctgctc gcttcgacag cgactgggg	120
gagttccggg cggtagcga gctggggcgg cctgatgagg agtactggaa cagccagaag	180
gacttcttgg aagacaggcg ggccgcgggtg gacacctact gcagacacaa ctacggggct	240
gtggagagct tcacagtga gcggcgag	268

&lt;210&gt; 142

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 142

tttcttggag tactctacgt ctgagtgtca ttcttcaat gggacggagc ggggtgcggt	60
cctggacaga tactttata accaagagga gtacgtgcgc ttcgacagcg acgtggggga	120
gttccgggcg gtgacggagc tggggcgccc tgatgaggag tactggaaca gccagaagga	180
cttcttgaa gacaggcggg ccgcgggtga cacctattgc agacacaact acggggctgt	240
ggagagcttc acagtgcagc ggcgag	266

&lt;210&gt; 143

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 143

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt gcggttctg	60
gacagatact ttataacca agaggagtac gtgcgttcg acagcgacgt gggggagttc	120
cgggcgggtga cggagctggg gcggcctgat gaggagtact ggaacagcca gaaggacctc	180
ctggagcaga agcggggccc ggtggacaac tactgcagac acaactacgg ggttgtggag	240
agcttcacag tgcagcggcg ag	262

&lt;210&gt; 144

<211> 238  
<212> DNA  
<213> Homo sapiens

<400> 144  
gtctgagtgt cattttctca atgggacgga gcgggtgcgg ttcttgaca gatacttcta 60  
taaccaagag gactacgtgc gcttcgacag cgacgtgggg gagttccggg cggtagacgga 120  
gctggggcgg cctgatgagg agtactggaa cagccagaag gacctcctgg aagacaggcg 180  
ggccgcggtg gacacctact gcagacacaa ctacgggggtt ggtgagagct tcacagtg 238

<210> 145  
<211> 238  
<212> DNA  
<213> Homo sapiens

<400> 145  
gtctgagtgt cattttctca atgggacgga gcgggtgcgg ttcttgaca gatacttcta 60  
taaccaagag gactacgtgc gcttcgacag cgacgtgggg gagttccggg cggtagacgga 120  
gctggggcgg cctgatgagg agtactggaa cagccagaag gacctcctgg aagacaggcg 180  
ggccgcggtg gacacctact gcagacacaa ctacgggggtt ggtgagagct tcacggtg 238

<210> 146  
<211> 231  
<212> DNA  
<213> Homo sapiens

<400> 146  
cattttctca atgggacgga gcgggtgcgg ttcttgaca gatacttcca taaccaggag 60  
gagaacgtgc gcttcgacag cgacgtgggg gagttccggg cggtagacgga gctggggcgg 120  
cctgatgagg agtactggaa cagccagaag gacctcctgg aagacaggcg ggccgcggtg 180  
gacacctact gcagacacaa ctacgggggtt ggtgagagct tcacagtga g 231

<210> 147  
<211> 219  
<212> DNA  
<213> Homo sapiens

<400> 147  
gagtgtcatt tcttcaatgg gacggagcgg gtgcggttcc tggacagata ctccataac 60  
caggaggagt tcgtgcgctt cgacagcgac gtgggggagt tccgggcggt gacggagctg 120  
gggcggcctg atgaggagta ctggaacagc cagaaggact tctggaaga caggcgggcc 180  
gcggtggaca cctactgcag acacaactac ggggttgg 219

<210> 148  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 148  
tttcttgag tactctacgt ctgagtgtca tttcttcaat gggacggagc gggtagcgtt 60  
cctggacaga tactttata accaagagga gtacgtgcgc ttcgacagcg acgtggggga 120  
gttccgggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga 180  
cttcttgaa gacgagcggg ccgcggtgga cacctactgc agacacaact acgggggttg 240  
tgagagcttc acagtgcagc ggcgag 266

<210> 149  
 <211> 219  
 <212> DNA  
 <213> Homo sapiens

<400> 149  
 gagtgtcatt tcttcaatgg gacggagcgg gtgcggttcc tggacagata cttctataac 60  
 caagaggagt tcgtgcgctt cgacagcgac gtgggggagt tccgggcggt gacggagctg 120  
 gggcggcctg atgaggagta ctggaacagc cagaaggact tcttgaaga caggcggggc 180  
 gcggtggaca cctactgcag acacaactac ggggttgg 219

<210> 150  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 150cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gacggggtgc 60  
 ggttctctgga cagatacttc tataaccagg aggagttcgt gcgttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg aacagccaga 180  
 aggacttctt ggaagacagg cgggcccggg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 151  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<400> 151  
 ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg 60  
 acggagcggg tgcggttcct ggacagatac ttccataacc aggaggagtt cgtgcgcttc 120  
 gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga tgaggagtac 180  
 tggaacagcc agaaggacct cctggagcgg aggcgggccc cggtggacac ctattgcaga 240  
 cacaactacg gggttgtgga gagcttcaca gtgcagcggc ga 282

<210> 152  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 152  
 ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg 60  
 acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta cgtgcgcttc 120  
 gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga tgaggagtac 180  
 tggaacagcc agaaggacat cctggaagac gagcgggccc cggtggacac ctactgcaga 240  
 cacaactacg gggttggtga gagcttcaca gtgcagcggc gag 283

<210> 153  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 153  
 ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg 60  
 acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagga cttgcgcttc 120  
 gacagcgacg tgggggagtt ccgggcggtg acggagctgg ggcggcctga tgaggagtac 180  
 tggaacagcc agaaggactt cctggaagac aggcgggccc cggtggacac ctactgcaga 240  
 cacaactacg gggttggtga gagcttcaca gtgcagcggc gag 283

<210> 154  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 154  
 cacgttttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg aacagccaga 180  
 aggacatcct ggaagacgag cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 155  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 155  
 ggggacacca gaccacgttt ctggagtac tctacgtctg agtgtcattt cttcaatggg 60  
 acggagcggg tgcggttctt ggacagatac ttccataacc aggaggagtt cgtgcgcttc 120  
 gacagcgacg tgggggagta cggggcgggtg acggagctgg ggcggcctga tgaggagtac 180  
 tggaacagcc agaaggacct cctggagcgg aggcggggccg aggtggacac ctattgcaga 240  
 cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 156  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 156  
 tttcttgag tactctacgt ctgagtgtca tttcttcaat gggacggagc ggggtgcggtt 60  
 cctggacaga tactttata accaagagga gtacgtgcgc ttcgacagcg acgtggggga 120  
 gttccgggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga 180  
 catcctggaa gacaggcggg ccgcggtgga cacctactgc agacacaact acgggggttg 240  
 ggagagcttc acagtgcagc ggcgag 266

<210> 157  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 157  
 tttcttgag tactctacgt ctgagtgtca tttcttcaat gggacggagc ggggtgcggtt 60  
 cctggacaga tactttata accaagagga gtacgtgcgc ttcgacagcg acgtggggga 120  
 gttccgggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga 180  
 catcctggaa gacaggcggg ccgcggtgga cacctactgc agacacaact acgggggttg 240  
 tgagagcttc acagtgcagc ggcgag 266

<210> 158  
 <211> 256  
 <212> DNA  
 <213> Homo sapiens

<400> 158  
 ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt gcggttctctg 60  
 gacagatact tccataacca ggaggagaac gtgcgcttcg acagcgacgt gggggagttc 120  
 cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca gaaggacatc 180

ctggaagacg agcggggccgc ggtggacacc tactgcagac acaactacgg ggttggtgag 240  
agcttcacag tgcagc 256

<210> 159  
<211> 241  
<212> DNA  
<213> Homo sapiens

<400> 159  
ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt gcggttcctg 60  
gacagatact tctataacca agaggagtac gtgcgcttcg acagcgacgt gggggagttc 120  
cgggcgggtga cggagctggg gcggcctgat gaggagtact ggaacagcca gaaggacatc 180  
ctggaagacg agcggggccgc ggtggacacc tactgcagac acaactacgg ggctgtggag 240  
a 241

<210> 160  
<211> 250  
<212> DNA  
<213> Homo sapiens

<400> 160  
cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttctctga cagatacttc tataaccagg aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg aacagccaga 180  
aggacttctt ggaagacagg cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag 250

<210> 161  
<211> 247  
<212> DNA  
<213> Homo sapiens

<400> 161  
ccacgtttct tggagtactc tacgtctgag gtgcatttct tcaatgggac ggagcgggtg 60  
cggttccttg acagatactt ctataaccaa gaggagtacg tgcgcttcga cagcgacgtg 120  
ggggagttcc gggcgggtgac ggagctgggg cggcctgatg aggagtactg gaacagccag 180  
aaggacttcc tggagacag cggggccctg gtggacacct actgcagaca caactacggg 240  
gttggtg 247

<210> 162  
<211> 251  
<212> DNA  
<213> Homo sapiens

<400> 162  
ttcttgaggt actctacgtc tgagtgtcat ttcttcaatg ggacggagcg ggtgcgggtc 60  
ctggacagat acttctataa ccaagaggag gacgtgcgct tcgacagcga cgtggggggag 120  
ttccggcgcg tgacggagct ggggcggcct gatgaggagt actggaacag ccagaaggac 180  
ttcttggaag acaggcgggc cgcggtggac acctactgca gacacaacta cggggttggt 240  
gagagcttca c 251

<210> 163  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 163

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttctctga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg aacagccaga 180  
aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggcgag 270

<210> 164  
<211> 240  
<212> DNA  
<213> Homo sapiens

<400> 164  
ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt gcggttcttg 60  
gacagatact totataacca agaggagtac gtgcgcttcg acagcgacgt gggggagtgc 120  
cgggcggtga cggagctggg ggcgcctgat gaggagtact ggaacagcca gaaggacctc 180  
ctggagcaga ggcgggccgc ggtggacacc tactgcagac acaactacgg ggttggtgag 240

<210> 165  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 165  
tttcttggag tactctacgt ctgagtgtca tttcttcaat gggacggagc ggggtgcggtt 60  
cctggacaga tacttctata accaagagga gtacgtgcgc ttcgacagcg acgtggggga 120  
gttcggggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga 180  
cttctggaa gacaggcggg ccgcggtgga caattactgc agacacaact acgggggttg 240  
tgagag 246

<210> 166  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 166  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttctctga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg aacagccaga 180  
aggacttcct ggaagacagg cgggcccgcg tggacaacta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 167  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 167  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttctctga cagatacttc tataaccaag aggagaacgt gcgcttcgac agcgacgtgg 120  
gggagtccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg aacagccaga 180  
aggacttcct ggaagacagg cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 168  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 168



cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccaag aggagtccgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg aacagccaga 180  
 aggacttcct ggaagacagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 169  
 <211> 269  
 <212> DNA  
 <213> Homo sapiens

<400> 169  
 cacgtttctt ggagtctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg aacagccaga 180  
 aggacttcct ggaagacagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgga 269

<210> 170  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 170ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt ctcaatggg 60  
 acggagcggg tgcggttcct ggacagatac ttctataacc aagaggagta cgtgcgcttc 120  
 gacagcgacg tgggggagtt cggggcgggtg acggagctgg ggcggcctga tgaggagcac 180  
 tggaaacagc agaaggacat cctggaagac aggcggggccg cgttgagacac ctactgcaga 240  
 cacaactacg ggttgggtga gagcttcaca gtgcagcggc gag 283

<210> 171  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 171  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg aacagccaga 180  
 aggacttcct ggaagacagg cgggccgtgg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 172  
 <211> 259  
 <212> DNA  
 <213> Homo sapiens

<400> 172  
 ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt gcggttcctg 60  
 gacagatact ttataacca agaggagtac gtgcgcttcg acagcgacgt gggggagttc 120  
 cgggcgggtga cggagctggg gcggcctgat gaggactact ggaacagcca gaaggacttc 180  
 ctggaagaca ggcggggcgc ggtggacacc tactgcagac acaactacgg ggttgggtgag 240  
 agcttcacag tgcagcggc 259

<210> 173  
 <211> 269  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 173

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc	60
ggttctctgga cagatacttc tataaccaag aggagtacgt gcgttcgac agcgacgtgg	120
gggagtccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg aacagccaga	180
aggacctctt ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg	240
ttgtggagag cttcacagtg cagcggcga	269

&lt;210&gt; 174

&lt;211&gt; 259

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 174

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt gcggttcctg	60
gacagatact tctataacca agaggagtac gtgcgttcg acagcgacgt gggggagtgc	120
cgggcggtga cggagctggg gcggcctgat gaggactact ggaacagcca gaaggacttc	180
ctggaagaca ggccggccgc ggtggacacc tactgcagac acaactacgg ggttgtggag	240
agcttcacag tgcagcggc	259

&lt;210&gt; 175

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 175

cgtttcttgg agtactctac gtctgagtgt catttcttca atgggacgga gcgggtgcgg	60
ttcttgga gatacttcta taaccaagag gactacgtgc gcttcgacag cgacgtgggg	120
gagttccggg cggtgacgga gctggggcgg cctgatgagg agtactggaa cagccagaag	180
gacctctgg aagacgagcg ggccgcggtg gacacctact gcagacacaa ctacgggggt	240
gtggagagct tcacagtga gcggcga	267

&lt;210&gt; 176

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 176

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc	60
ggttctctgga cagatacttc tataaccaag aggagtacgt gcgttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg aacagccaga	180
aggacttctt ggaagacagg cgggccgagg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcggcgag	270

&lt;210&gt; 177

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 177

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc	60
ggttctctgga cagatacttc tataaccaag aggagtacgt gcgttcgac agcgacgtgg	120
gggagtccg ggcggtgacg gagctggggc ggcctgatga ggggtactgg aacagccaga	180
aggacttctt ggaagacagg cgggccgagg tggacaccta ctgcagacac aactacgggg	240
ttgtggagag cttcacagtg cagcggcgag	270

&lt;210&gt; 178

<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 178  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgttcgac agcgacgtgg 120  
gggagttccg ggcggtgagg gagctggggc ggcctgatga ggagtactgg aacagccaga 180  
aggacttctt ggaagacagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 179  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 179  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc cataaccagg aggagaacgt gcgttcgac agcgacgtgg 120  
gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg aacagccaga 180  
aggacttctt ggaagacgag cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
ttgtgg 246

<210> 180  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 180  
tttcttgag tactctacgt ctgagtgtca tttcttcaat gggacggagc ggggtgcggtt 60  
cctggacaga tactctata accaagagga gtacgtgcgc ttcgacagcg acgtggggga 120  
gtaccgggag gtacggagc tggggcgagg tgatgaggag tactggaaca gccagaagga 180  
cttcttgaa gacgagcggg ccgcggtgga cacctactgc agacacaact acgggggtgt 240  
ggagagcttc acagtgcagc ggcgag 266

<210> 181  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 181  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgttcgac agcgacgtgg 120  
gggagttccg ggcggtgacg gagctggggc ggcctgatga ggagtactgg aacagccaga 180  
aggacttctt ggaagacagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggcgag 270

<210> 182  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 182  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgttcgac agcgacgtgg 120  
gggagttccg ggcggtgagg gagctggggc ggcctgatga ggagtactgg aacagccaga 180  
aggacttctt ggaagacagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggcgag 270

<210> 183  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 183  
 atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt gacactgatg 60  
 gtgctgagct cccactggc ttggctggg gacaccagac cacgtttctt ggagtactct 120  
 acgggtgagt gttatttctt caatgggacg gagcgggtgc ggttactgga gagacacttc 180  
 cataaccagg aggagctcct gcgcttcgac agcgacgtgg gggagtccg ggcggtgacg 240  
 gagctggggc ggcctgtcgc cgagtcctgg aacagccaga aggacatcct ggaagacagg 300  
 cgcgccgagg tggacaccta ttgcagacac aactacgggg ctgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 184  
 <211> 370<212> DNA  
 <213> Homo sapiens

<400> 184  
 atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt gacactgatg 60  
 gtgctgagct cccactggc ttggctggg gacaccagac cacgtttctt ggagtactct 120  
 acgggtgagt gttatttctt caatgggacg gagcgggtgc ggttactgga gagacacttc 180  
 cataaccagg aggagctcct gcgcttcgac agcgacgtgg gggagtccg ggcggtgacg 240  
 gagctggggc ggcctgtcgc cgagtcctgg aacagccaga aggacatcct ggaagacagg 300  
 cgggccgagg tggacaccta ctgcagacac aactacgggg ctgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 185  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 185  
 cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc 60  
 ggttactgga gagacacttc cataaccagg aggagctcct gcgcttcgac agcgacgtgg 120  
 gggagtccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg aacagccaga 180  
 aggacttctt ggaagacagg cgcgccgagg tggacaccta ttgcagacac aactacgggg 240  
 ctgtggagag cttcacagtg cagcggcgag 270

<210> 186  
 <211> 243  
 <212> DNA  
 <213> Homo sapiens

<400> 186  
 ttcttgaggt actctacggg tgagtgttat ttcttcaatg ggacggagcg ggtgcggtta 60  
 ctggagagac acttcataa ccaggaggag ctctgcgct tcgacagcga cgtgggggag 120  
 ttccgggcgg tgacggagct ggggcggcct gtgccgagt cctggaacag ccagaaggac 180  
 ttcttgaag acaggcgcgc cgcggtggac acctactgca gacacaacta cggggctgtg 240  
 gag 243

<210> 187  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 187  
 cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc 60

ggttactgga gagacacttc cataaccagg aggagtcct gcgttcgac agcgactgg 120  
 gggagtccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg aacagccaga 180  
 aggacatcct ggaagacagg cgcgccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcgg 266

<210> 188  
 <211> 235  
 <212> DNA  
 <213> Homo sapiens

<400> 188  
 gagtactcta cgggtgagtg ttatttcttc aatgggacgg agcgggtgag gttactggag 60  
 agacacttc ataaccagga ggagtcctg cgcttcgaca gcgactggg ggagtccgg 120  
 ggcggtgacgg agctggggcg gctgatgag gagtactgga acagccagaa ggacatcctg 180  
 gaagacaggg cgcgccgggt ggacacatat tgcagacaca actacggggc tgtgg 235

<210> 189  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 189  
 cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc 60  
 ggttactgga gagacacttc cataaccagg aggagtcct gcgttcgac agcgactgg 120  
 gggagtccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg aacagccaga 180  
 aggacatcct ggaagacagg cgcgccgagg tggacaccta ttgcagacac aactacgggg 240  
 ctgtggagag cttcacagtg cagcggcgag 270

<210> 190  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 190ggggacacca gaccacgttt cttggagtac tctacgggtg agtggtattt cttcaatggg 60  
 acggagcggg tgcggttact ggagagacac ttccataacc aggaggagct cctgccttc 120  
 gacagcgacg tgggggagtt cggggcgggtg acggagctgg ggcggcctgt cgcgagtc 180  
 tggaaacagcc agaaggacat cctggaagac aggcgcgccg cggtggacac ctattgcaga 240  
 cacaactacg gggctgtgga gagcttcaca gtgcagcggc gag 283

<210> 191  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 191  
 cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc 60  
 ggttactgga gagacacttc cataaccagg aggagtcct gcgttcgac agcgactgg 120  
 gggagtccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg aacagccaga 180  
 aggacatcct gggagacagg cgcgccgagg tggacaccta ttgcagacac aactacgggg 240  
 ctgtggagag cttcacagtg cagcggcgag 270

<210> 192  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 192  
 cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc 60

ggttcctgga gagacattc cataaccagg aggagctcct gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg aacagccaga 180  
 aggacatcct ggaagacagg cgcgccgagg tggacaccta ttgcagacac aactacgggg 240  
 ctgtggagag cttcacagtg cagcggcgag 270

<210> 193  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 193  
 ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg 60  
 acggagcggg tgcggttcct ggacagatac ttccataacc aggaggagaa cgtgcgcttc 120  
 gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctga tgccgagtag 180  
 tggaacagcc agaaggacat cctggaagac gagcgggccc cggtggacac ctactgcaga 240  
 cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 194  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 194  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacatcct ggaagacgag cgggctcggg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 195  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 195  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacatcct ggaagacgag cgggccgagg tggacaccta ttgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 196  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 196  
 ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg 60  
 acggagcggg tgcggttcct ggacagatac ttccataacc aggaggagaa cgtgcgcttc 120  
 gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctga tgccgagtag 180  
 tggaacagcc agaaggacat cctggaagac gagcgggccc cggtggacac ctactgcaga 240  
 cacaactacg gggttggtga gagcttcaca gtgcagcggc gag 283

<210> 197  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 197

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc	60
ggttctctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg	120
gggagttccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga	180
aggacatcct ggaagacgag cgcgccgagg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcgg	266

&lt;210&gt; 198

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 198

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt ctcaatggg	60
acggagcggg tgcggttctt ggacagatac ttctataacc aagaggagta cgtgcgcttc	120
gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctag cgccgagtac	180
tggaacagcc agaaggacat cctggaagac aagcgggccg cgttgagacac ctactgcaga	240
cacaactacg ggttgggtga gagcttcacg gtgcagcggc gag	283

&lt;210&gt; 199

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 199

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt gcggttctctg	60
gacagatact ttataacca agaggagtac gtgcgcttcg acagcgacgt gggggagtac	120
cgggcggtga cggagctggg gcggcctagc gccgagtact ggaacagcca gaaggacatc	180
ctggaagaca agcgggccgc ggtggacacc tactgcagac acaactacgg ggttgggtgag	240
agcttcacag tgcagcggcg ag	262

&lt;210&gt; 200

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 200ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt ctcaatggg 60

acggagcggg tgcggttctt ggacagatac ttctataacc aagaggagta cgtgcgcttc	120
gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctag cgccgagtac	180
tggaacagcc agaaggacat cctggaagac gagcgggccg cgttgagacac ctactgcaga	240
cacaactacg ggttgggtga gagcttcaca gtgcagcggc gag	283

&lt;210&gt; 201

&lt;211&gt; 268

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 201

cgtttcttgg agtactctac gtctgagtgt catttcttca atgggacgga gcgggtgcgg	60
ttcttgga gatacttcca taaccaggag gagaacgtgc gcttcgacag cgacgtgggg	120
gagttccggg cgttgacgga gctggggcgg cctgatgccg agtactggaa cagccagaag	180
gacttcttgg aagacaggcg ggcgcgggtg gacacctact gcagacacaa ctacgggggtt	240
ggtgagagct tcacagtga gcggcgag	268

&lt;210&gt; 202

<211> 228  
<212> DNA  
<213> Homo sapiens

<400> 202  
tgtcatttct tcaatgggac ggagcgggtg cggttcctgg acagatactt ccataaccag 60  
gaggagaacg tgcgcttcga cagcgacgtg ggggagttcc gggcgggtgac ggagctgggg 120  
cggcctgatg ccgagtactg gaacagccag aaggacatcc tggaagacag gcgggcccgcg 180  
gtggacacct actgcagaca caactacggg gttgtggaga gcttcaca 228

<210> 203  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 203  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttctctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
aggacttctt ggaagacagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 204  
<211> 268  
<212> DNA  
<213> Homo sapiens

<400> 204  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttctctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgacgc tgagtactgg aacagccaga 180  
aggacttctt ggaagacagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcg 268

<210> 205  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 205  
ttcttgaggt actctacgtc tgagtgtcat ttcttcaatg ggacggagcg ggtgcggttc 60  
ctggacagat acttccataa ccaggaggag ttcgtgcgct tcgacagcga cgtgggggag 120  
taccgggcgg tgacggagct ggggcggcct gatgccgagt actggaacag ccagaaggac 180  
atcctggaag acgagcgggc cgcggtggac acctactgca gacacaacta cggggttgtg 240  
gagagcttca cagtg 255

<210> 206  
<211> 256  
<212> DNA  
<213> Homo sapiens

<400> 206  
tttcttgag tactctacgt ctgagtgtca ttcttcaat gggacggagc ggtgcggttc 60  
cctggacaga tacttccata accaggagga gaacgtgcgc ttcgacagcg acgtggggga 120  
gttcggggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca gccagaagga 180  
catcctggag caggcgcggg ccgcggtgga cacctactgc agacacaact acggggttgt 240  
ggagagcttc acagtg 256



<210> 207  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 207  
 cacgtttctt ggagtactct acgtctgagt gtcattttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacatcct ggaagacaag cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 208  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 208  
 cacgtttctt ggagtactct acgtctgagt gtcattttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacttcct ggaagacagg cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 209  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 209  
 cacgtttctt ggagtactct acgtctgagt gtcattttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
 aggacatcct ggaagacagg cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
 ttgtgagag cttcacagtg cagcggcgag 270

<210> 210  
 <211> 262  
 <212> DNA  
 <213> Homo sapiens

<400> 210cacgtttctt ggagtactct acgtctgagt gtcattttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
 aggacatcct ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
 ttgtgagag cttcacagtg ca 262

<210> 211  
 <211> 227  
 <212> DNA  
 <213> Homo sapiens

<400> 211  
 tacgtctgag tgtcatttct tcaatgggac ggagcgggtg cggttcctgg acagatactt 60  
 ctataacaa gaggagtacg tgcgcttcga cagcgacgtg ggggagtcc ggcggtgac 120  
 ggagctgggg cggcctgatg ccgagtactg gaacagccag aaggacttcc tggaagacag 180  
 cggggccgcg gtggacacct actgcagaca caactacggg gttggtg 227

<210> 212  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 212  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagttccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
aggacttctt ggaagacagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 213  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 213  
tttcttgag tactctacgt ctgagtgtca tttcttcaat gggacggagc ggggtgcggtt 60  
cctggagaga tacttccata accaggagga gaacgtgcgc ttcgacagcg acgtggggga 120  
gttcggggcg gtgacggagc tggggcgccc tgatgccgag tactggaaca gccagaagga 180  
catcctggaa gacgagcggg ccgcgggtgga cacctactgc agacacaact acggggttgt 240  
ggagagcttc acagtgcagc ggcgag 266

<210> 214  
<211> 247  
<212> DNA  
<213> Homo sapiens

<400> 214  
ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga 60  
cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg gggagttccg 120  
ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacatcct 180  
ggaagacgag cgggccgagg tggacaccta ctgcagacac aactacgggg ttgatgagag 240  
cttcaca 247

<210> 215  
<211> 283  
<212> DNA  
<213> Homo sapiens

<400> 215  
ggggacacca gaccacgttt cttggagtac tctacgggtg agtggtatctt cttcaatggg 60  
acggagcggg tgcggttctt ggacagatac ttctataacc aagaggagta cgtgcgttc 120  
gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctga tgccgagtac 180  
tggaacagcc agaaggacat cctggaagac gagcggggccg cgggtggacac ctactgcaga 240  
cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 216  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 216  
cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180

aggacttctt ggaagacagg cgggcccttg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 217  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 217  
 ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg 60  
 acggagcggg tgcggttctt ggagagatac ttccataacc aggaggagt cgtgcgcttc 120  
 gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctga tgccgagtac 180  
 tggaacagcc agaaggacat cctggaagac gagcggggccg cgggtggacac ctactgcaga 240  
 cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 218  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 218  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcttgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggaagacgag cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcgg 266

<210> 219  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 219  
 ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg 60  
 acggagcggg tgcggttctt ggacagatac ttctataacc aagaggagta cgtgcgcttc 120  
 gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctag cgccgagtac 180  
 tggaacagcc agaaggactt cctggaagac aggcggggccg cgggtggacac ctactgcaga 240  
 cacaactacg gggttggtga gagcttcaca gtgcagcggc gag 283

<210> 220  
 <211> 273  
 <212> DNA  
 <213> Homo sapiens

<400> 220gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg acggagcggg 60  
 tgcggttctt ggacagatac ttctataacc aagaggagta cgtgcgcttc gacagcgacg 120  
 tgggggagtt ccgggcgggtg acggagctgg ggcggcctga tgccgagtac tggaacagcc 180  
 agaaggacat cctggaagac gagcggggccg cgggtggacac ctactgcaga cacaactacg 240  
 gggttgtgga gagcttcaca gtgcagcggc gag 273

<210> 221  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

<400> 221

cgttttcttg agtactctac gtctgagtgt cattttctca atgggacgga gcgggtgcgg 60  
 ttcttgga gatacttcta taaccaagag gactacgtgc gcttcgacag cgacgtgggg 120  
 gagttccggg cggtagcgga gctggggcgg cctgatgccg agtactggaa cagccagaag 180  
 gacatcctgg aagacgagcg ggccgcggtg gacacctact gcagacacaa ctacgggggtt 240  
 ggtgagagct tcacggtgca gcggc 265

<210> 222  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

<400> 222  
 cgttttcttg agtactctac gtctgagtgt cattttctca atgggacgga gcgggtgcgg 60  
 ttcttgga gatacttcta taaccaagag gactacgtgc gcttcgacag cgacgtgggg 120  
 gagttccggg cggtagcgga gctggggcgg cctgatgccg agtactggaa cagccagaag 180  
 gacttcctgg aagacgagcg ggccgcggtg gacacctact gcagacacaa ctacgggggtt 240  
 gtggagagct tcacagtgc gcggc 265

<210> 223  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 223  
 cagttttctt ggagtactct acgtctgagt gtcattttct caatgggacg gagcgggtgc 60  
 ggttcttgga cagatacttc tataaccaag aggagtacgt gcgttcgac agcgacgtgg 120  
 gggagtccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggaagacagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgaga 249

<210> 224  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 224  
 cagttttctt ggagtactct acgtctgagt gtcattttct caatgggacg gagcgggtgc 60  
 ggttcttgga gagatacttc cataaccagg aggagaacgt gcgttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacttctt ggaagacagg cgcgccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtgc cagcggcgag 270

<210> 225  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 225  
 cagttttctt ggagtactct acgtctgagt gtcattttct caatgggacg gagcgggtgc 60  
 ggtacctgga cagatacttc cataaccagg aggagaacgt gcgttcgac agcgacgtgg 120  
 gggagtccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacatctt ggaagacgag cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtgc cagcggcgag 270

<210> 226  
 <211> 248  
 <212> DNA

<213> Homo sapiens

<400> 226

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt gcggttcctg	60
gacagatact tcataacca ggaggagaac gtgcgttcg acagcgacgt gggggagttc	120
cgggcggtga cggagctggg gcggcctgat gccgagtact ggaacagcca gaaggacatc	180
ctggaagacg agcgggcccgc ggtggacacc tactgcagac acaactaccg ggttgtggag	240
agcttcac	248

<210> 227

<211> 270

<212> DNA

<213> Homo sapiens

<400> 227

cacgtttctt ggagtactct acgtctgagt gtcattttct caatgggacg gagcgggtgc	60
ggttctctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg	120
gggagttccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga	180
aggacctcct ggaagacgag cgggccgagg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcggcgag	270

<210> 228

<211> 253

<212> DNA

<213> Homo sapiens

<400> 228

tttcttgag tactctacgt ctgagtgtca tttcttcaat gggacggagc ggggtgcggtt	60
cctggacaga tacttctata accaagagga gtacgtgcgc ttcgacagcg acgtggggga	120
gttcggggcg gtgacggagc tggggcggcc tagcggcgag tactggaaca gccagaagga	180
catcttgaa gacagggcggg ccgcggtgga cacctactgc agacacaact acgggggttg	240
tgagagcttc aca	253

<210> 229

<211> 269

<212> DNA

<213> Homo sapiens

<400> 229

cacgtttctt ggagtactct acgtctgagt gtcattttct caatgggacg gagcgggtgc	60
ggttctctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg	120
gggagttccg ggcggtgacg gagctggggc ggctgtgcgc cgagtactgg aacagccaga	180
aggacatcct ggaagacgag cgggccgagg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcggcga	269

<210> 230

<211> 270

<212> DNA

<213> Homo sapiens

<400> 230	cacgtttctt ggagtactct acgtctgagt gtcattttct caatgggacg gagcgggtgc	60
	ggttctctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg	120
	gggagtaccg ggcggtgacg gagctggggc ggcttagcgc cgagtactgg aacagccaga	180
	aggacatcct ggaagacgag cgggccgagg tggacaccta ctgcagacac aactacgggg	240
	ttgtgagag cttcacagtg cagcggcgag	270

<210> 231

<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 231  
cacgtttctt ggagtactct acgtctgagt gtcattttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
aggacatcct ggaagacaag cgggccgcgg tggacaacta ctgcagacac aactacgggg 240  
ttggtg 246

<210> 232  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 232  
cacgtttctt ggagtactct acgtctgagt gtcattttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc cataaccagg aggagaacct gcgcttcgac agcgacgtgg 120  
gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 233  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 233  
cacgtttctt ggagtactct acgtctgagt gtcattttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc cataaccagg aggagaacct gcgcttcgac agcgacgtgg 120  
gggagttcct ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcgg 266

<210> 234  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 234  
cacgtttctt ggagtactct acgtctgagt gtcattttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc cataaccagg aggagaacct gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 235  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 235  
cacgtttctt ggagtactct acgtctgagt gtcattttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacatcct ggaagacaag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacgtg cagcggcga 269

<210> 236  
 <211> 245  
 <212> DNA  
 <213> Homo sapiens

<400> 236  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcttgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
 aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
 ttggt 245

<210> 237  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 237  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcttgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagtccg ggcggtgacg gagctggggc ggcctgatgc cgagtcctgg aacagccaga 180  
 aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 238  
 <211> 260  
 <212> DNA  
 <213> Homo sapiens

<400> 238  
 ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt gcggttcttg 60  
 gacagatact tccataacca ggaggagaac gtgcgcttcg acagcgacgt gggggagtac 120  
 cgggcggtga cggagctggg ggcgcctgat gccgagtact ggaacagcca gaaggacatc 180  
 ctggaagacg agcggggcgc ggtggacacc tactgcagac acaactacgg ggttgtggag 240  
 agcttcacag tgcagcggcg 260

<210> 239  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 239  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggtacctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagtccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 240  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 240cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcttgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagtccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacttctt ggaagacagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 241  
 <211> 269  
 <212> DNA  
 <213> Homo sapiens

<400> 241  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgtgc ggagcactgg aacagccaga 180  
 aggacctctt ggaagacgag cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 269

<210> 242  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 242  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagagg cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 243  
 <211> 242  
 <212> DNA  
 <213> Homo sapiens

<400> 243  
 ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt gcggttctg 60  
 gacagatact tctataacca agaggagtac gtgcgcttcg acagcgacgt gggggagttc 120  
 cgggcggtga cggagctggg gcggcctgct gcggagcact ggaacagcca gaaggacatc 180  
 ctggaagacg agcggggccgc ggtggacacc tactgcagac acaactacgg ggttggtgag 240  
 ag 242

<210> 244  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 244  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgtgc cgagtactgg aacagccaga 180  
 aggacctctt ggaagacagg cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 245  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 245  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240



ttggtgagag cttcacggtg cagcggcgag

270

<210> 246

<211> 270

<212> DNA

<213> Homo sapiens

<400> 246

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggcgag 270

<210> 247

<211> 266

<212> DNA

<213> Homo sapiens

<400> 247

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttgtgagag cttcacagtg cagcgg 266

<210> 248

<211> 270

<212> DNA

<213> Homo sapiens

<400> 248

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc tataaccaag aggagaacgt gcgcttcgac agcgacgtgg 120  
gggagtccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacttcct ggaagacagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttgtgagag cttcacagtg cagcggcgag 270

<210> 249

<211> 270

<212> DNA

<213> Homo sapiens

<400> 249

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
gggagtccg ggcgttgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggcgag 270

<210> 250

<211> 260

<212> DNA

<213> Homo sapiens

<400> 250

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc cataaccagg aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180

aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg 260

<210> 251  
 <211> 269  
 <212> DNA  
 <213> Homo sapiens

<400> 251  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga gagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcttgatgc cgagtactgg aacagccaga 180  
 aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcga 269

<210> 252  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 252  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggctgtcgc cgagtcctgg aacagccaga 180  
 aggacttctt ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 253  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 253  
 ttcttgag tactctacgt ctgagtgtca ttcttcaat gggacggagc ggggtcgggtt 60  
 cctggacaga tactttata accaagagga gtacgtgcgc ttcgacagcg acgtggggga 120  
 gtaccgggcg gtgacggagc tggggcggcc tagcggcgag tactggaaca gccagaagga 180  
 cttcctggaa gacaggcggg ccttggtgga cacctactgc agacacaact acggggttgg 240  
 tgagagcttc acggtgcagc ggcgag 266

<210> 254  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 254  
 atggtgtgtc tgaggctccc tggaggtccc tgcattggcag ttctgacagt gacactgatg 60  
 gtgctgagct cccactggc ttggctggg gacaccagac cacgtttctt ggagtactct 120  
 acgtctgagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga cagatacttc 180  
 cataaccagg aggagttcgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
 gagctggggc ggctgtctgc ggagcactgg aacagccaga aggacctctt ggagcggagg 300  
 cgggccgagg tggacaccta ttgcagacac aactacgggg ttgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 255  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 255

cacgtttctt ggagtactct acgtctgagt gtcattttctt caatgggacg gagcgggtgc	60
ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggcttgctgc ggagcactgg aacagccaga	180
aggacctct ggagcggagg cgggccgagg tggacaccta ctgcagacac aactacgggg	240
ttgtgg	246

&lt;210&gt; 256

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 256

atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt gacactgatg	60
gtgctgagct cccactggc ttggctggg gacaccagac cacgtttctt ggagtactct	120
acgtctgagt gtcattttctt caatgggacg gagcgggtgc ggttcctgga gagatacttc	180
cataaccagg aggagaacgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg	240
gagctggggc ggctgatgc cgagtactgg aacagccaga aggacctct ggagcagagg	300
cgggccgagg tggacaccta ctgcagacac aactacgggg ttggtgagag cttcacagtg	360
cagcggcgag	370

&lt;210&gt; 257

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 257

atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt gacactgatg	60
gtgctgagct cccactggc ttggctggg gacaccagac cacgtttctt ggagtactct	120
acgtctgagt gtcattttctt caatgggacg gagcgggtgc ggttcctgga gagatacttc	180
cataaccagg aggagaacgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg	240
gagctggggc ggctgatgc cgagtactgg aacagccaga aggacctct ggaagacagg	300
cgggccttg tggacaccta ctgcagacac aactacgggg ttggtgagag cttcacagtg	360
cagcggcgag	370

&lt;210&gt; 258

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 258

atggtgtgtc tgaggctccc tggaggctcc tgcattggcag ttctgacagt gacactgatg	60
gtgctgagct cccactggc ttggctggg gacaccagac cacgtttctt ggagtactct	120
acgggtgagt gttattttctt caatgggacg gagcgggtgc ggttcctgga cagatacttc	180
cataaccagg aggagttcgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg	240
gagctggggc ggcttgctgc ggagcactgg aacagccaga aggacctct ggagcggagg	300
cgggccgagg tggacaccta ttgcagacac aactacgggg ttgtggagag cttcacagtg	360
cagcggcgag	370

&lt;210&gt; 259

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 259

cacgtttctt ggagtactct acgtctgagt gtcaattctt caatgggacg gagcgggtgc	60
ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggcttgatgc tgagtactgg aacagccaga	180
aggacctct ggagcggagg cgggccgagg tggacaccta ttgcagacac aactacgggg	240

ttgtggagag cttcacagtg cagcggcgag

270

&lt;210&gt; 260

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 260cagtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttctctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
aggacctctt ggagcggagg cgggccgagg tggacaccta ttgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggcgag 270

&lt;210&gt; 261

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 261  
cagtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttctctgga gagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
aggacctctt ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggcgag 270

&lt;210&gt; 262

&lt;211&gt; 269

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 262  
cagtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttctctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgctgc ggagcactgg aacagccaga 180  
aggacctctt ggagcggagg cgggccgagg tggacaccta ttgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcga 269

&lt;210&gt; 263

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 263  
cagtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttctctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgctgc ggagcactgg aacagccaga 180  
aggacctctt ggagcggagg cgggccgagg tggacaccta ttgcagacac aactacgggg 240  
ttggtgagag cttcacgtg cagcggcgag 270

&lt;210&gt; 264

&lt;211&gt; 269

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 264  
cagtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttctctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgatgc ggagcactgg aacagccaga 180  
aggacctctt ggagcggagg cgggccgagg tggacaccta ttgcagacac aactacgggg 240

ttgtggagag cttcacagtg cagcggcga

269

<210> 265

<211> 266

<212> DNA

<213> Homo sapiens

<400> 265

tttcttggag tactctacgt ctgagtgtca tttcttcaat gggacggagc ggggtgcggtt 60  
 cctggacaga tacttccata accaggagga gaacgtgccc ttcacagcg acgtggggga 120  
 gtaccgggcg gtacggagc tggggcggcc tgatccgag tactggaaca gccagaagga 180  
 cctctggag cagaggcggg ccgcggtgga cacctactgc agacacaact acggggttgg 240  
 tgagagcttc acagtgcagc ggcgag 266

<210> 266

<211> 261

<212> DNA

<213> Homo sapiens

<400> 266

ttcttggagc aggttaaaca tgagtgtcat tttctcaatg ggacggagcg ggtgcggttc 60  
 ctggacagat acttccataa ccaggaggag ttcgtgcgct tcgacagcga cgtgggggag 120  
 taccgggagg tgacggagct ggggcggcct gctgcggagc actggaacag ccagaaggac 180  
 ctcttggagc ggaggcgggc cgaggtggac acctattgca gacacaacta cggggttgtg 240  
 gagagcttca cagtgcagc g 261

<210> 267

<211> 235

<212> DNA

<213> Homo sapiens

<400> 267

gagtactcta cgggtgagtg ttatttcttc aatgggacgg agcgggtgcg gttctggac 60  
 agatacttcc ataaccagga ggagttcgtg cgcttcgaca gcgacgtggg ggagtaccgg 120  
 gcgggtgacgg agctggggcg gcctgatgag gagtactgga acagccagaa ggacctctg 180  
 gacgggaggg gggccgaggt ggacacctat tgcagacaca actacggggt tgtgg 235

<210> 268

<211> 224

<212> DNA

<213> Homo sapiens

<400> 268

gtctgagtgt catttcttca atgggacgga gcgggtgcgg ttcttgaga gatacttcca 60  
 taaccaggag gagaacgtgc gcttcgacag cgacgtgggg gagtaccggg cggtagcggg 120  
 gctggggcgg cctgatgccg agtactggaa cagccagaag gacctctgg aagacaggcg 180  
 ggccctgtg gacacctact gcagacaaa ctacggggt gtgg 224

<210> 269

<211> 235

<212> DNA

<213> Homo sapiens

<400> 269

gagtactcta cgtctgagtg tcatttcttc aatgggacgg agcgggtgcg gttctggag 60

agatacttcc ataaccagga ggagaacgtg cgcttcgaca ggcacgtggg ggagtaccgg 120  
 gcggtgacgg agctggggcg gcctagcgcc gactactgga acagccagaa ggacctctg 180  
 gagcagaggg gggccgcggt ggacacctac tgcagacaca actacggggt tgggtg 235

<210> 270  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<400> 270  
 ttcttgaggt actctacgtc tgagtgtcat ttcttcaatg ggacggagcg ggtgcggttc 60  
 ctggacagat acttccataa ccaggaggag ttcgtgcgtc tcgacagcga cgtgggggag 120  
 taccgggcgg tgacggagct ggggcggcct gatgccgagt actggaacag ccagaaggac 180  
 ctctggagc ggaggcgggc cgaggtggac acctattgca gacacaacta cggggttgg 240  
 gagagcttca cagtg 255

<210> 271  
 <211> 247  
 <212> DNA  
 <213> Homo sapiens

<400> 271  
 ctctacgggt gagtgttatt tcttcaatgg gacggagcgg gtgcggttcc tggacagata 60  
 cttccataac caggaggagt tcgtgcgtt cgacagcgac gtgggggagt accgggcggt 120  
 gacggagctg gggcggcctg atgccagta ctggaacagc cagaaggact tctggaaga 180  
 caggcgggcc ctggtggaca cctactgcag acacaactac ggggttgtgg agagcttcac 240  
 agtgcag 247

<210> 272  
 <211> 240  
 <212> DNA  
 <213> Homo sapiens

<400> 272  
 ttggagtact ctacgtctga gtgtcatttc tcaatggga cggagcgggt gcggttcctg 60  
 gacagatact tccataacca ggaggagttc gtgcgttcg acagcgacgt gggggagtac 120  
 cgggcgggtga cggagctggg gcggcctgct gcggagcact ggaacagcca gaaggacatc 180  
 ctggaagacg agcgggccgc ggtggacacc tactgcagac acaactacgg ggttgtggag 240

<210> 273  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 273  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttctctga cagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagagg cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcgg 266

<210> 274  
 <211> 258  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 274

gagtactcta cgtctgagtg tcattttctc aatgggacgg agcgggtgcg gttcctggag 60  
agatacttcc ataaccagga ggagaacgtg cgcttcgaca gcgacgtggg ggagtaccgg 120  
gcgggtgacgg agctggggcg gcctgatgct gagtactgga acagccagaa ggacctcctg 180  
gagcggaggc gggccgaggt ggacacctat tgcagacaca actacggggt tgtggagagc 240  
ttcacagtgc agcggcga 258

&lt;210&gt; 275

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 275

ggggacacca gaccacgttt cttggagtac tctacgtctg agtgtcattt cttcaatggg 60  
acggagcggg tgcggttcct ggagagatac ttccataacc aggaggagaa cgtgcgcttc 120  
gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga tgccgagtac 180  
tggaacagcc agaaggacct cctggagcag aagcgggccg cgggtggacac ctactgcaga 240  
cacaactacg gggttggtga gagcttcaca 270

&lt;210&gt; 276

&lt;211&gt; 241

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 276

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt gcggttcctg 60  
gagagatact tccataacca ggaggagttc gtgcgcttcg acagcgacgt gggggagtac 120  
cgggcggtga cggagctggg gcggcctgat gccgagtact ggaacagcca gaaggacctc 180  
ctggagcaga ggcgggccgc ggtggacacc tactgcagac acaactacgg ggttgtggag 240  
a 241

&lt;210&gt; 277

&lt;211&gt; 241

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 277

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt gcggttcctg 60  
gacagatact tccataacca ggaggagaac gtgcgcttcg acagcgacgt gggggagttc 120  
cgggcggtga cggagctggg gcggcctgat gccgagtact ggaacagcca gaaggacctc 180  
ctggagcaga agcgggccgc ggtggacacc tactgcagac acaactacgg ggttgtggag 240  
a 241

&lt;210&gt; 278

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 278

cacgtttctt ggagtactct acgtctgagt gtcattttct caatgggacg gagcgggtgc 60  
ggttctctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgtctgc ggagcactgg aacagccaga 180  
aggacttcct ggaagacagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

&lt;210&gt; 279

&lt;211&gt; 270

<212> DNA  
<213> Homo sapiens

<400> 279

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc	60
ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga	180
aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac aactacgggg	240
ttgtggagag cttcacagtg cagcggcgag	270

<210> 280  
<211> 265  
<212> DNA  
<213> Homo sapiens

<400> 280ttcttggagt actctacgtc tgagtgtcat ttcttcaatg ggacggagcg ggtgcggttc	60
ctggagagat acttccataa ccaggaggag aacgtgcgtc tcgacagcga cgtgggggag	120
taccgggcgg tgacggagct ggggcggcct gatgccgagt actggaacag ccagaaggac	180
atcctggagc aggcgcgggc cgcggtggac acctactgca gacacaacta cggggttgg	240
gagagcttca cagtgcagcg gcgag	265

<210> 281  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 281

tttcttggag tactctacgt ctgagtgtca tttcttcaat gggacggagc gggcgcggtt	60
cctggacaga tacttctata accaagagga gtacgtgcgc ttcgacagcg acgtggggga	120
gtaccgggcg gtgacggagc tggggcggcc tgctgcggag cactggaaca gccagaagga	180
cttcttgga gacaggcggg ccgcggtgga cacctactgc agacacaact acggggttgg	240
tgagagcttc acagtgcagc ggcgag	266

<210> 282  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 282

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc	60
agtctctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg aacagccaga	180
aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac aactacgggg	240
ttgtggagag cttcacagtg cagcggcgag	270

<210> 283  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 283

cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc	60
ggttcttggga gagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga	180
aggacttctt ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcggcgag	270

<210> 284



<211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 284  
 cacgtttctt ggagtactct acgggtgagt gttatttctt caatgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc cataaccagg aggagtctgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggctgtctgc ggagcactgg aacagccaga 180  
 aggacctctt ggagcggagg cgggccgagg tggacaccta ttgcagacac aactacgggg 240  
 ctgtggagag cttcaca 257

<210> 285  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 285  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttctctgga gagatacttc cataaccagg aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ctgtggagag cttcacagtg cagcggcgag 270

<210> 286  
 <211> 253  
 <212> DNA  
 <213> Homo sapiens

<400> 286  
 tttcttggag tactctacgt ctgagtgtca tttcttcaat gggacggagc ggggtgcggtt 60  
 cctggacaga tacttccata accaggagga gaactgcgc ttcgacagcg acgtggggga 120  
 gttccggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca gccagaagga 180  
 cctcttggag cagaggcggg ccgcggtgga cacctactgc agacacaact acggggtttg 240  
 tgagagcttc aca 253

<210> 287  
 <211> 253  
 <212> DNA  
 <213> Homo sapiens

<400> 287  
 tttcttggag tactctacgg gtgagtgtta tttcttcaat gggacggagc ggggtgcggtt 60  
 cctggacaga tacttccata accaggagga gttcgtgcgc ttcgacagcg acgtggggga 120  
 gtaccggcg gtgacggagc tggggcggcc tgctcgggag cactggaaca gccagaagga 180  
 cctcttggag cggaggcggg ccgcggtgga cacctattgc agacacaact acggggttgt 240  
 ggagagcttc aca 253

<210> 288  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 288  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc cataaccagg aggagtctgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggctgtctgc ggagcactgg aacagccaga 180  
 aggacctctt ggagcggagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240

ttgtggagag cttcacagtg cagcggcgag

270

<210> 289

<211> 259

<212> DNA

<213> Homo sapiens

<400> 289

ttggagtact ctacgtctga gtgtcatttc ttcaatggga cggagcgggt gcggttcctg 60  
gacagatact tccataacca ggaggagaac gtgcgttcg acagcgacgt gggggagtgc 120  
cgggcggtga cggagctggg gcggcctgat gccgagtact ggaacagcca gaaggacctc 180  
ctggagcaga ggcgggcccga ggtggacacc tactgcagac acaactacgg ggttgtggag 240  
agcttcacag tgcagcggc 259

<210> 290

<211> 270

<212> DNA

<213> Homo sapiens

<400> 290cagctttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgatgc ggagcactgg aacagccaga 180  
aggacctctt ggagcggagg cgggccgagg tggacaccta ttgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggcgag 270

<210> 291

<211> 266

<212> DNA

<213> Homo sapiens

<400> 291

cagctttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgatgc ggagcactgg aacagccaga 180  
aggacctctt ggagcggagg cgggccgagg tggacaccta ttgcagacac aactacgggg 240  
ttgtggagag cttcacagtg cagcggc 266

<210> 292

<211> 270

<212> DNA

<213> Homo sapiens

<400> 292

cagctttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgc 120  
gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
aggacctctt ggagcggagg cgggccgagg tggacaccta ttgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 293

<211> 270

<212> DNA

<213> Homo sapiens

<400> 293

cagctttctt ggagtactct acgtctgagt gtcaattctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgatgc tgagtactgg aacagccaga 180

aggacatcct ggagcaggcg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 294  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 294  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg aacagccaga 180  
 aggacctcct ggagcggagg cgggccgagg tggacaatta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 295  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 295  
 cacgtttctt ggagtaccct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgctgc ggagcactgg aacagccaga 180  
 aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 296  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 296  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga gagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctcct ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 297  
 <211> 269  
 <212> DNA  
 <213> Homo sapiens

<400> 297  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga gagatacttc cataaccagg aggagttcct gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgga 269

<210> 298  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 298  
 cacgtttctt ggagtactct acgtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccaag aggagtacgt gcgcttcgac agcgacgtgg 120

gggagttccg ggcggtgacg gagctggggc ggcttgatgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 299  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 299  
 cagctttctt ggagtactct acgtctgagt gtcaattctt caatgggacg gagcgggtgc 60  
 ggttcttgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcttgatgc tgagtactgg aacagccaga 180  
 aggacctcct ggagcggagg cgggccgagg tggacgccta ttgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 300  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 300cagctttctt ggagtactct acgtctgagt gtcaattctt caatgggacg gagcgggtgc 60  
 ggttcttgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcttgatgc tgagtactgg aacagccaga 180  
 aggacctcct ggagcggagg cgggccgagg tggacaccta ttgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 301  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 301  
 cagctttctt ggagtactct acgtctgagt gtcaattctt caatgggacg gagcgggtgc 60  
 ggttcttgga cagatacttc cataaccagg aggagttcgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcttgatgc tgagtactgg aacagccaga 180  
 aggacatcct ggagcggagg cgggccgagg tggacaccta ttgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 302  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 302  
 atggtgtgtc tgaagctccc tggaggctcc tgcattgacg cgctgacagt gacactgatg 60  
 gtgctgagct cccactggc ttgtctggg gacacccgac cagcttctct gtggcagcct 120  
 aagagggagt gtcatttctt caatgggacg gagcgggtgc ggttcttgga cagatacttc 180  
 tataaccagg aggagtccgt gcgcttcgac agcgacgtgg gggagttcgg ggcggtgacg 240  
 gagctggggc ggctgacgc tgagtactgg aacagccaga aggacatcct ggagcaggcg 300  
 cgggccgagg tggacaccta ctgcagacac aactacgggg ttgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 303  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 303  
 cagcttctct gtggcagcct aagagggagt gtcatttctt caatgggacg gagcgggtgc 60

ggttcctgga cagatacttc tataaccagg aggagtccgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacatcct ggagcaggcg cgggccgagg tggacaccta ctgcagacac aactacggag 240  
 ttgtggagag cttcacagtg cagcgg 266

<210> 304  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 304  
 cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccagg aggagtccgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacatcct ggagcaggcg cgggccgagg tggacaccta ttgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcgg 266

<210> 305  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 305  
 cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcctgga cagatacttc tataaccagg aggagtccgt gcgcttcgac agcgacgtgg 120  
 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacatcct ggagcaggcg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 306  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 306  
 ggggacaccc gaccacgttt cctgtggcag cctaagaggg agtgtcattt cttcaatggg 60  
 acggagcggg tgcggttctt ggacagatac ttctataacc aggaggagtc cgtgcgcttc 120  
 gacagcgacg tgggggagtt cggggcgggtg acggagctgg ggcggcctga cgctgagtag 180  
 tggaaacagcc agaaggacat cctggagcag gcgcggggccg cgggtggacac ctactgcaga 240  
 cacaactacg gggttggtga gagcttcaca gtgcagcggc gag 283

<210> 307  
 <211> 220  
 <212> DNA  
 <213> Homo sapiens

<400> 307  
 gagtgtcatt tcttcaatgg gacggagcgg gtgcggttcc tggacagata cttctataac 60  
 caggaggagt ccgtgcgctt cgacagcgac gtgggggagt tccgggagggt gacggagctg 120  
 ggcggcctg atgccgagta ctggaacagc cagaaggaca tcttgagca ggcgcggggc 180  
 gcggtggaca cctactgcag acacaactac ggggttggtg 220

<210> 308  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 308

cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg gagcgggtgc 60  
 gtttcttgga cagatacttc tataatcagg aggagtccgt gcgcttcgac agcgacgtgg 120  
 gggagtccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacatcct ggagcaggcg cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
 ttggtg 246

&lt;210&gt; 309

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 309

ggggacaccc gaccacgttt cctgtggcag cctaagaggg agtgtcattt cttcaatggg 60  
 acggagcggg tgcggttctt ggacagacac ttctataacc aggaggagtc cgtgcgcttc 120  
 gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctga cgctgagtac 180  
 tggaacagcc agaaggacat cctggagcag gcgcggggccg cgggtggacac ctactgcaga 240  
 cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

&lt;210&gt; 310

&lt;211&gt; 255

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 310ttcctgtggc agcctaagag ggagtgtcat ttcttcaatg ggacggagcg ggtgcggttc 60  
 ctggacagat actttataa ccaggaggag tccgtgcgct tcgacagcga cgtgggggag 120  
 ttccgggcgg tgacggagct ggggcggcct gacgctgagt actggaacag ccagaaggac 180  
 ttctggagc aggcgcgggc cgcggtggac acctactgca gacacaacta cggggttgtg 240  
 gagagttca cagtg 255

&lt;210&gt; 311

&lt;211&gt; 261

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 311

ttctgtggc agcctaagag ggagtgtcat ttcttcaatg ggacggagcg ggtgcggttc 60  
 ctggacagat actttataa ccaggaggag tccgtgcgct tcgacagcga cgtgggggag 120  
 ttccgggcgg tgacggagct ggggcggcct gacgctgagt actggaacag ccagaaggac 180  
 ctctggagc aggcgcgggc cgcggtggac acctactgca gacacaacta cggggttgtg 240  
 gagagttca cagtgcagcg g 261

&lt;210&gt; 312

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 312

ctgtggcagc ctaagaggga gtgtcatttc ttcaatggga cggagcgggt gcggttcctg 60  
 gacagatact totataacca ggaggagtcc gtgcgcttcg acagcgacgt gggggagttc 120  
 cgggcggcga cggagctggg gcggcctgac gctgagtact ggaacagcca gaaggacatc 180  
 ctggagcagg cgcggggccg cgtggacacc tactgcagac acaactacgg ggttgtggag 240  
 agcttcacag tgcagcggcg ag 262

&lt;210&gt; 313

<211> 247  
 <212> DNA  
 <213> Homo sapiens

<400> 313  
 tttctgtgg cagcctaaga gggagtgtca ttcttcaat gggacggagc ggggtgcggtt 60  
 cctggacaga tactttata accaggagga gtccgtgcgc ttcgacagcg acgtggggga 120  
 gtaccggcg gtgacggagc tggggcgcc tgacgtgag tactggaaca gccagaagga 180  
 catctggag caggcgggg ccgcggtga cacctactgc agacacaact acggggtgtg 240  
 ggagagc 247

<210> 314  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 314  
 cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcttgga cagatacttc tataaccagg aggagtccgt gcgcttcgac agcgacgtgg 120  
 gggagtccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 agaacatcct ggagcaggcg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 315  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 315  
 cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcttgga cagatacttc tataaccagg aggagtccgt gcgcttcgac agcgacgtgg 120  
 gggagtcca ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacatcct ggagcaggcg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 316  
 <211> 248  
 <212> DNA  
 <213> Homo sapiens

<400> 316  
 gtttctgtg gcagcctaag agggagtgtc atttctcaa tgggacggag cgggtgcggt 60  
 tcttgacag atactctat aaccaggagg agtccgtgcg cttcgacagc gacgtggggg 120  
 agttccgggc ggtgacggag ctggggcggc ctgacgtga gtactggaac agccagaagg 180  
 acatctgga agacgagcgg gccgcggtgg acacctactg cagacacaac tacggggttg 240  
 tggagagc 248

<210> 317  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 317  
 cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcttgga cagatacttc tataaccagg aggagtccgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacatcct ggagcaggcg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 318  
<211> 271  
<212> DNA  
<213> Homo sapiens

<400> 318  
gcacgtttcc tgtggcagcc taagaggag tgcatttct tcaatgggac ggagcgggtg 60  
cggttcctgg acagatactt ctataaccag gaggagtccg tgcgttcga cagcgacgtg 120  
ggggagtcc gggcgggtgac ggagctgggg cggcctagcg ccgagtactg gaacagccag 180  
aaggacatcc tggagcaggc gcgggccggt gtggacacct actgcagaca caactacggg 240  
gttggtggaga gcttcacagt gcagcggcga g 271

<210> 319  
<211> 263  
<212> DNA  
<213> Homo sapiens

<400> 319  
cacgtttcct gtggcagcct aagaggaggt gtcatttctt caatgggacg gagcgggtgc 60  
ggttcctgga cagatacttc tataaccagg aggagtccgt gcgcttcga agcgacgtgg 120  
gggagtccg ggcgggtgac gagctggggc ggcctgacgc tgagtactgg aacagccagg 180  
acatcctgga gcaggcggg gccgcgggtg acacctactg cagacacaac tacgggggtg 240  
tggagagctt cacagtgcag cgg 263

<210> 320  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 320  
atggtgtgtc tgaagctccc tggaggtccc tgcattgacag cgctgacagt gacactgatg 60  
gtgctgagct cccactggc ttggctggg gacacccgac cacgtttcct gtggcagcct 120  
aagaggaggt gtcatttctt caatgggacg gagcgggtgc ggttcctgga cagatacttc 180  
tataaccagg aggagtccgt gcgcttcga agcgacgtgg gggagtaccg ggcgggtgacg 240  
gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacttctt ggaagacagg 300  
cgcgccggtg tggacacctt ctgcagacac aactacgggg ttggtgagag cttcacagtg 360  
cagcggcgag 370

<210> 321  
<211> 255  
<212> DNA  
<213> Homo sapiens

<400> 321  
cgtttctgt ggcagcctaa gaggaggtgt catttctta atgggacgga gcgggtgcgg 60  
ttcttgga gatacttcta taaccaggag gagtccgtgc gcttcgacag cgacgtgggg 120  
gagtaccggg cggtagcga gctggggcgg cctgacgtg agtactggaa cagccagaag 180  
gacttcttg aagacaggcg ggcccggtg gacacctact gcagacaaa ctacgggggt 240  
ggtgagagct tcaca 255

<210> 322  
<211> 370  
<212> DNA  
<213> Homo sapiens

<400> 322



atggtgtgtc tgaagctccc tggaggctcc tgcattgacag cgctgacagt gacactgatg 60  
 gtgctgagct cccactggc ttggctggg gacacccgac cacgtttcct gtggcagcct 120  
 aagagggagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga cagatacttc 180  
 tataaccagg aggagtccgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
 gagctggggc ggctgacgc tgagtactgg aacagccaga aggacctcct ggaagacagg 300  
 cgcgccgagg tggacaccta ctgcagacac aactacgggg ttggtgagag cttcacagtg 360  
 cagcggcgag 370

<210> 323  
 <211> 242  
 <212> DNA  
 <213> Homo sapiens

<400> 323  
 tttctgtgg cagcctaaga gggagtgtca tttcttcaat gggacggagc ggggtgcggtt 60  
 cctggacaga tactttata accaggagga gtccgtgagc ttcgacagcg acgtggggga 120  
 gtaccgggag gtgacggagc tggggcggcc tgacgtgag tactggaaca gccagaagga 180  
 cctctggaa gacaggcggg ccgcggtgga cacctactgc agacacaact acgggggttg 240  
 tg 242

<210> 324  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 324  
 atggtgtgtc tgaagctccc tggaggctcc tgcattgacag cgctgacagt gacactgatg 60  
 gtgctgagct cccactggc ttggctggg gacacccgac cacgtttcct gtggcagcct 120  
 aagagggagt gtcatttctt caatgggacg gagcgggtgc ggttcctgga cagatacttc 180  
 tataaccagg aggagtccgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
 gagctggggc ggctgacgc tgagtactgg aacagccaga aggacctcct ggaagacagg 300  
 gccgccgagg tggacaccta ctgcagacac aactacgggg ttggtgagag cttcacagtg 360  
 cagcggcgag 370

<210> 325  
 <211> 235  
 <212> DNA  
 <213> Homo sapiens

<400> 325  
 tggcagccta agagggagtg tcattttctt aatgggacgg agcgggtgag gttcctggac 60  
 agatacttct ataaccagga ggagtccgtg cgcttcgaca gcgacgtggg ggagtaccgg 120  
 gcggtgacgg agctggggcg gctgacgtg gactactgga acagccagaa ggacttctg 180  
 gaagacaggc gggccctggt ggacacctac tgcagacaca actacggggt tgggtg 235

<210> 326  
 <211> 240<212> DNA  
 <213> Homo sapiens

<400> 326  
 ctgtggcagc ctaagaggga gtgtcatttc ttcaatggga cggagcgggt gcggttcctg 60  
 gacagatact tctataacca ggaggagtcc gtgccttcg acagcgacgt gggggagtac 120  
 cgggcggtga cggagctggg gcggcctgac gctgagtact ggaacagcca gaaggacatc 180  
 ctggaagaca ggcgcgccgc ggtggacacc tactgcagac acaactacgg ggttggtgag 240

<210> 327  
 <211> 262  
 <212> DNA

<213> Homo sapiens

<400> 327

cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg gagcgggtgc	60
ggttcccgga cagatacttc tataaccagg aggagtccgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga	180
aggacatcct ggaagacagg cgcgccgagg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg ca	262

<210> 328

<211> 270

<212> DNA

<213> Homo sapiens

<400> 328

cacgtttcct gtggcagcct aagagggagt gtcatttctt caatgggacg gagcgggtgc	60
ggttctcgga cagatacttc tataaccagg aggagaacgt gcgcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga	180
aggacttctt ggaagacagg cgcgccgagg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcggcgag	270

<210> 329

<211> 283

<212> DNA

<213> Homo sapiens

<400> 329

ggggacaccc gaccacgttt cttggagctg cgtaagtctg agtgtcattt cttcaatggg	60
acggagcggg tgcgttacct ggacagatac ttccataacc aggaggagtt cctgcgcttc	120
gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctgt cgccgagtcc	180
tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggacaa ttactgcaga	240
cacaactacg gggttggtga gagcttcaca gtgcagcggc gag	283

<210> 330

<211> 370

<212> DNA

<213> Homo sapiens

<400> 330

atggtgtgtc tgaagctccc tggaggtccc agcttggcag cgttgacagt gacactgatg	60
gtgctgagct cccgactggc ttctgtggg gacacccgac cacgtttctt ggagctgcgt	120
aagtctgagt gtcatttctt caatgggacg gagcgggtgc ggtacctgga cagatacttc	180
cataaccagg aggagtctt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg	240
gagctggggc ggcctgtcgc cgagtcttgg aacagccaga aggacctctt ggagcagaag	300
cggggccggg tggacaatta ctgcagacac aactacgggg ttggtgagag cttcacagtg	360
cagcggcgag	370

<210> 331

<211> 264

<212> DNA

<213> Homo sapiens

<400> 331

ggggacaccc gaccacgttt cttggagctg cgtaagtctg agtgtcattt cttcaatggg	60
acggagcggg tgcgttacct ggacagatac ttccataacc aggaggagtt cctgcgcttc	120
gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctgt tgccgagtcc	180
tggaacagcc agaaggacct cctggagcag aagcggggcc ggggtggacaa ttactgcaga	240
cacaactacg gggttggtga gagc	264

<210> 332  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 332  
cacgttttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggtacctgga cagatacttc cataaccagg aggagttcct gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg aacagccaga 180  
aggacctctt ggagcagaag cggggccggg tggacaatta ctgcagacac aactacggag 240  
ttggtg 246

<210> 333  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 333  
ggggacaccc gaccacgttt cttggagctg tgtaagtctg agtgtcattt cttcaatggg 60  
acggagcggg tgcggtacct ggacagatac ttccataacc aggaggagtt cctgccttc 120  
gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctgt cgccgagtc 180  
tggaacagcc agaaggacct cctggagcag aagcggggcc ggtggacaa ttactgcaga 240  
cacaactacg ggttgggtga gagg 264

<210> 334  
<211> 251  
<212> DNA  
<213> Homo sapiens

<400> 334  
cacgttttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggtacctgga gagatacttc cataaccagg aggagttcct gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg aacagccaga 180  
aggacctctt ggagcagaag cggggccggg tggacaatta ctgcagacac aactacgggg 240  
ttggtgagag c 251

<210> 335  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 335  
cacgtttctc ggagctgcgt aagtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggtacctgga cagatacttc cataaccagg aggagttcct gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctgtcgc cgagtcctgg aacagccaga 180  
aggacctctt ggagcagaag cggggccggg tggacaatta ctgcagacac aactacgggg 240  
ttggtgagag cttcaca 257

<210> 336  
<211> 268  
<212> DNA  
<213> Homo sapiens

<400> 336  
cacgttttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
ggtacctgaa cagatacttc cataaccagg aggagttcct gcgcttcgac agcgacgtgg 120

gggagtaccg ggcggtgacg gagctggggc ggctgtcgc cgagtcttg aacagccaga 180  
 aggacctct ggagcagaag cggggccggg tggacaatta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcgcg 268

<210> 337  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 337  
 cacgtttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggtacctgga cagatacttc cataaccagg aggagttcgt gcgttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggctgtcgc cgagtcttg aacagccaga 180  
 aggacctct ggagcagaag cggggccggg tggacaatta ctgcagacac aactacgggg 240  
 ttggtg 246

<210> 338  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 338  
 cacgtttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggtacctgga cagatacttc cataaccagg aggagtagc gcgttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgagg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
 aggacctct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg 240  
 ttggtg 246

<210> 339  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 339  
 cacgtttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggtacctgga cagatacttc cataaccagg aggagaact gcgttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggctgtcgc cgagtcttg aacagccaga 180  
 aggacctct ggagcagaag cggggccggg tggacaatta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcgg 266

<210> 340  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 340cacgtttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcttga gagacacttc cataaccagg aggagtagc gcgttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggctgtcgc cgagtcttg aacagccaga 180  
 aggacctct ggagcagaag cggggccggg tggacaatta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcgg 266

<210> 341  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 341

cacgtttctt ggagctgcgt aagtctgagt gtcatttctt caatgggacg gagcgggtgc	60
ggtacctgga cagatacttc cataaccagg aggagttcct gagcttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggctgtgc cgagtctgg aacagccaga	180
aggacctct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg	240
ttggtg	246

&lt;210&gt; 342

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 342

atggtgtgtc tgaagctccc tggaggtcc agcttggcag cgttgacagt gacactgatg	60
gtgtgagct cccgactggc ttctgtggg gacacccgac cacgtttctt ggagctgctt	120
aagtctgagt gtcatttctt caatgggacg gagcgggtgc ggttctgga gagacacttc	180
cataaccagg aggagtacgc gcgttcgac agcgacgtgg gggagtaccg ggcggtgagg	240
gagctggggc ggctgatgc cgagtactgg aacagccaga aggacctct ggagcagaag	300
cggggccagg tggacaatta ctgcagacac aactacgggg ttgtggagag cttcacagtg	360
cagcggcgag	370

&lt;210&gt; 343

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 343

ggggacaccc gaccacgttt cttggagctg cttagtctg agtgtcattt cttcaatggg	60
acggagcggg tgcggttctt ggagagacac ttccataacc aggaggagta cgcgcgttc	120
gacagcgacg tgggggagta cggggcgggtg agggagctgg ggcggcctga tgccgagtac	180
tggaacagcc agaaggacct cctggagcag aagcggggcc aggtggacaa ttactgcaga	240
cacaactacg gggttggtga gagcttcaca gtgcagcggc gag	283

&lt;210&gt; 344

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 344

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc	60
ggttctgga gagacacttc cataaccagg aggagtacgc gcgttcgac agcgacgtgg	120
gggagtaccg ggcggtgagg gagctggggc ggctgatgc cgagtactgg aacagccaga	180
aggacctct ggagcagaag cggggccagg tggacaacta ctgcagacac aactacgggg	240
ttggtg	246

&lt;210&gt; 345

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 345

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc	60
ggttctgga gagacacttc cataaccagg aggagtacgc gcgttcgac agcgacgtgg	120
gggagtaccg ggcggtgagg gagctggggc ggctgatgc cgagtactgg aacagccaga	180
aggacctct ggagcagaag cggggccagg tggacaatta ctgcaggcac aactacgggg	240
ttggtgagag cttcacagtg cagcggcgag	270

<210> 346  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 346  
 cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcttgga gagacacttc cataaccagg aggagtacgc gcgcttcgac agcgactgg 120  
 gggagtaccg ggcggtgagg gagctggggc ggctgatgc ggagtactgg aacagccaga 180  
 aggacctct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 347  
 <211> 241  
 <212> DNA  
 <213> Homo sapiens

<400> 347  
 ttggagctgc ttaagtctga gtgtcatttc ttcaatggga cggagcgggt gcggttcctg 60  
 gagagacact tccataacca ggaggagtcc gtgcgttcg acagcgactg gggggagtac 120  
 cgggcggtga gggagctggg cgggcctgat gccgagtact ggaacagcca gaaggacctc 180  
 ctggagcaga agcggggcca ggtggacaat tactgcagac acaactacgg ggttggtgag 240  
 a 241

<210> 348  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 348  
 cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcttgga gagacacttc cataaccagg aggagtacgc gcgcttcgac agcgactgg 120  
 gggagtaccg ggcggtgagg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
 aggacctct ggagcagaag cggggccggg tggacaacta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 349  
 <211> 261  
 <212> DNA  
 <213> Homo sapiens

<400> 349  
 cgtttcttgg agctgcttaa gtctgagtgt catttcttca atgggacgga gcgggtgcgg 60  
 ttcttgga gatacttcca taaccaggag gactacgcgc gcttcgacag cgactgggg 120  
 gactaccggg cggtgaggga gctggggcgg cctgatgccg agtactggaa cagccagaag 180  
 gacctcttg agcagaagcg gggccagggt gacaattact gcagacacaa ctacgggggt 240  
 ggtgagagct tcacagtga g 261

<210> 350  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 350  
 cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttcttgga gagacacttc cataaccagg aggagaacgc gcgcttcgac agcgactgg 120  
 gggagtaccg ggcggtgagg gagctggggc ggctgatgc cgagtactgg aacagccaga 180

aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg 240  
 ttggtg 246

<210> 351  
 <211> 242  
 <212> DNA  
 <213> Homo sapiens

<400> 351  
 ttggagctgc ttaagtctga gtgtcatttc ttcaatggga cggagcgggt gcggttctg 60  
 gagagacact tccataacca ggaggagtac gcgcgcttcg acagcgacgt gggggagtac 120  
 cgggcggtga gggagctggg gcggcctgtc gccgagtact ggaacagcca gaaggacctc 180  
 ctggagcaga agcggggcca ggtggacaat tactgcagac acaactacgg ggttggtgag 240  
 ag 242

<210> 352  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 352  
 cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttctctga gagacacttc cataaccagg aggagtacgc gcgcttcgac agcgactgg 120  
 gggagtaccg ggcggtgagg gagctggggc ggcttagcgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg 240  
 ttggtg 246

<210> 353  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 353  
 cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc 60  
 ggttctctga gagacacttc cataaccagg aggagtacgc gcgcttcgac agcgactgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggctgtcgc cgagtcttg aacagccaga 180  
 aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg 240  
 ttggtgagag cttcaca 257

<210> 354  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 354  
 ggggacaccc gaccacgttt cttggagctg ctttaagtctg agtgtcattt cttcaatggg 60  
 acggagcggg tgcggttctt ggagagacac tccataacc aggaggagta cgcgcgttc 120  
 gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga tgccgagtac 180  
 tggaacagcc agaaggacct cttggagcag aagcggggcc aggtggacaa ttactgcaga 240  
 cacaactacg gggttggtga gagcttcaca gtgcagcggc gag 283

<210> 355  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 355

```

ggggacaccc gaccacgttt cttggagctg ctttaagtctg agtgtcattt cttcaatggg    60
acggagcggg tgcggttcct ggagagacac ttccataacc aggaggagta cgcgcgcttc    120
gacagcgacg tgggggagta cggggcggtg agggagctgg ggcggcctga tgccgagtac    180
tggaacagcc agaaggacat cctggagcag aagcggggcc aggtggacaa ttactgcaga    240
cacaactacg gggttggtga gagcttcaca gtcagcggc gag                        283

```

&lt;210&gt; 356

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 356

```

cacgtttctt gcagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc    60
ggttctctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac agcgacgtgg    120
gggagtaccg ggcggtgagg gagctggggc ggctgatgc cgagtactgg aacagccaga    180
aggacctctt ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg    240
ttggtgagag cttcacagtg cagcggcgag                        270

```

&lt;210&gt; 357

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 357

```

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc    60
ggctctctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac agcgacgtgg    120
gggagtaccg ggcggtgagg gagctggggc ggctgatgc cgagtactgg aacagccaga    180
aggacctctt ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg    240
ttggtgagag cttcacagtg cagcggcgag                        270

```

&lt;210&gt; 358

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 358

```

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc    60
ggttctctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac agcgacgtgg    120
gggagtaccg ggcggtgagg gagctggggc ggctgatgc cgagtactgg aacagccaga    180
aggacctctt ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg    240
ttgctgagag cttcacagtg cagcggcgag                        270

```

&lt;210&gt; 359

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 359

```

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc    60
ggttctctgga gagacacttc cataaccagg aggagtacgc gcgcttcgac agcgacgtgg    120
gggagtaccg ggcggtgagg gagctggggc ggctgatgc cgagtactgg aacagccaga    180
aggacctctt ggagcagaag cggggccagg tggacaccta ctgcagacac aactacgggg    240
ttggtgagag cttcacagtg cagcggcgag                        270

```

&lt;210&gt; 360

&lt;211&gt; 270

&lt;212&gt; DNA



<213> Homo sapiens

<400> 360

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc	60
ggttctctgga gagacacttc cataaccagg aggagtacgc gcgttcgac agcgacgtgg	120
gggagtaccg ggcggtgagg gagctggggc ggctgtctgc ggagcactgg aacagccaga	180
aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcggcgag	270

<210> 361

<211> 270

<212> DNA

<213> Homo sapiens

<400> 361

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc	60
ggttctctgga gagacacttc cataaccagg aggagtacgc gcgttcgac agcgacgtgg	120
gggagtaccg ggcggtgagg gagctggggc ggctgtatgc cgagtactgg aacagccaga	180
aggacttcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcggcgag	270

<210> 362

<211> 283

<212> DNA

<213> Homo sapiens

<400> 362

ggggacaccc gaccacgttt cttggagctg ctttaagtctg agtgtcattt cttcaatggg	60
acggagcggg tgcggttctt ggagagatac ttccataacc aggaggagtt cgtgcgttc	120
gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctgt cgcgagtc	180
tggaacagcc agaaggacct cctggagcag aagcggggcc aggtggacaa ttactgcaga	240
cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag	283

<210> 363

<211> 270

<212> DNA

<213> Homo sapiens

<400> 363

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc	60
ggttctctgga gagatacttc cataaccagg aggagttcgt gcgttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggctgtctgc cgagtcttgg aacagccaga	180
aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacggcg	240
ttgtggagag cttcacagtg cagcggcgag	270

<210> 364

<211> 246

<212> DNA

<213> Homo sapiens

<400> 364

cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc	60
ggttctctgga gagacacttc cataaccagg aggagttcgt gcgttcgac agcgacgtgg	120
gggagtaccg ggcggtgacg gagctggggc ggctgtctgc cgagtcttgg aacagccaga	180
aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg	240
ttgtgg	246

<210> 365

<211> 253  
 <212> DNA  
 <213> Homo sapiens

<400> 365  
 tttcttgag ctgcttaagt ctgagtgtca tttcttcaat gggacggagc gggcgcggtt 60  
 cctggagaga tacttcata accaggagga gttcgtgcgc ttcgacagcg acgtggggga 120  
 gtaccgggcg gtgacggagc tggggcgcc tgcgcgag tcctggaaca gccagaagga 180  
 cctcctggag cagaagcggg gccgggtgga caattactgc agacacaact acgggggttg 240  
 tgagagcttc aca 253

<210> 366  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 366  
 atggtgtgtc tgaagctccc tggaggctcc tgtatggcag cgctgacagt gacattgacg 60  
 gtgctgagct cccactggc ttggctggg gacaccaac cacgtttctt ggagcaggct 120  
 aagtgtgagt gtatttct caatgggacg gacgagtg ggaacctgat cagatacatc 180  
 tataaccaag aggagtacgc gcgtacaac agtgacctgg gggagtacca ggcggtgacg 240  
 gagctggggc ggctgacgc tgagtactgg aacagccaga aggacctct ggagcggagg 300  
 cgggcccagg tggacaccta ctgcagatac aactacgggg ttgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 367  
 <211> 220  
 <212> DNA  
 <213> Homo sapiens

<400> 367  
 gacgagtggt ggaacctgat cagatacatc tataaccaag aggagtacgc gcgtacaac 60  
 agtgacctgg gggagtacca ggcggtgacg gagctggggc ggctgacgc tgagtactgg 120  
 aacagccaga aggacctct ggagcggagg cgggcccagg tggcaccta ctgcagatac 180  
 aactacgggg ttgtggagag cttcacagtg cagcggcgag 220

<210> 368  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 368  
 ggggacaccc aaccacgttt ctggagcag gctaagtgtg agtgtcattt cctcaatggg 60  
 acggagcgag tgtggaacct gatcagatac atctataacc aagaggagta cgcgcgtac 120  
 aacagtgacc tgggggagta ccaggcgggtg acggagctgg ggcggcctga cgctgagtac 180  
 tggaaacagcc agaaggacct cctggagcgg aggcggggccg aggtggacac ctactgcaga 240  
 tacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 369  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 369  
 atggtgtgtc tgaagctccc tggaggctcc tgtatggcag cgctgacagt gacattgacg 60  
 gtgctgagct cccactggc ttggctggg gacaccaac cacgtttctt ggagcaggct 120  
 aagtgtgagt gtatttct caatgggacg gacgagtg ggaacctgat cagatacatc 180  
 tataaccaag aggagtacgc gcgtacaac agtgacctgg gggagtacca ggcggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacctct ggagcggagg 300  
 cgggccgagg tggacaccta ttgcagatac aactacgggg ttgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 370  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 370cacgtttctt ggagcaggct aagtgtgagt gtcatttcct caatgggacg gagcgagtgt 60  
 ggaacctgat cagatacatc tataaccaag aggagtacgc gcgctacaac agtgacctgg 120  
 gggagtacca ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacctctt ggagcggagg cgggccgagg tggacaccta ctgcagatac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 371  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 371  
 cacgtttctt ggagcaggct aagtgtgagt gtcatttcct caatgggacg gagcgagtgt 60  
 ggaacctgat cagatacatc tataaccaag aggagtacgc gcgctacaac agtgacctgg 120  
 gggagtacca ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacctctt ggagcggagg cgggccgagg tggacaacta ctgcagatac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 372  
 <211> 242  
 <212> DNA  
 <213> Homo sapiens

<400> 372  
 ttggagcagg ctaagtgtga gtgtcatttc ctcaatggga cggagcgagt gtggaacctg 60  
 atcagataca tctataacca agaggagtac gcgctctaca acagtacatc gggggagtac 120  
 caggcgggtga cggagctggg ggcgcctgac gctgagtact ggaacagcca gaaggacctc 180  
 ctggagcggga ggcggggcca ggtggacacc tactgcagac acaactacgg ggttgtggag 240  
 ag 242

<210> 373  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 373  
 cacgtttctt ggagcaggct aagtgtgagt gtcatttcct caatgggacg gagcgagtgt 60  
 ggaacctgat cagatacatc tataaccaag aggagtacgc gcgctacaac agtgacctgg 120  
 gggagtacca ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacctctt ggagcggagg cgggccgagg tggacaccta ctgcagatac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 374  
 <211> 300  
 <212> DNA  
 <213> Homo sapiens

<400> 374  
 ggtgctgagc tccccactgg ctttggctgg ggacacccaa ccacgtttct tggagcagge 60  
 taagtgtgag tgtcatttcc tcaatgggac ggagcctgat cagatacatc tataaccaag 120

aggagtacgc gcgctacaac agtgacctgg gggagtacca ggcggtgacg gagctggggc 180  
 ggcttgacgc tgagtactgg aacagccaga aggacctcct ggagcggagg cgggccgagg 240  
 tggacaccta ctgcagatac aactacgggg ttgtggagag cttcacagtg cagcggcgag 300

<210> 375  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 375  
 atggtgtgtc tgaagctccc tggaggttcc tacatggcaa agctgacagt gacactgatg 60  
 gtgctgagct cccactggc ttggctggg gacaccgac cagtttctt gcagcaggat 120  
 aagtatgagt gtcatttctt caacgggacg gagcgggtgc ggttctgca cagagacatc 180  
 tataaccaag aggaggactt gcgttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
 gagctggggc ggcttgacgc tgagtactgg aacagccaga aggacttctt ggaagacagg 300  
 cgccgcgagg tggacaccta ctgcagacac aactacgggg ttggtgagag cttcacagtg 360  
 cagcggcgag 370

<210> 376  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 376  
 cagtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttctgca cagagacatc tataaccaag aggaggactt gcgttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcttgacgc tgagtactgg aacagccaga 180  
 aggacttctt ggaagacagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcaca 257

<210> 377  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 377  
 ggggacacc gaccacgtt cttgcagcag gataagtatg agtgtcattt cttcaacggg 60  
 acggagcggg tgcggttct gcacagaggc atctataacc aagaggagaa cgtgcgcttc 120  
 gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga cgctgagtac 180  
 tggaaacgcc agaaggactt cctggaagac aggcgcgccc cgggtggacac ctactgcaga 240  
 cacaactacg gggttggtga gagcttcaca gtgcagcggc gag 283

<210> 378  
 <211> 250  
 <212> DNA  
 <213> Homo sapiens

<400> 378  
 ttgcagcagg ataagtatga gtgtcatttc ttcaacggga cggagcgggt gcggttctg 60  
 cacagaggca tctataacca agaggagAAC gtgcgcttcg acagcgactt gggggagtac 120  
 cgggcggtga cggagctggg gcggcctgac gctgagtact ggaacagcca gaaggacttc 180  
 ctggaagaca cgcgcgccc ggtggacacc tactgcagac acaactacgg ggttgggtgag 240  
 agcttcacag 250

<210> 379  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 379

ggggacaccc gaccacgttt cttgcagcag gataagtatg agtgtcattt cttcaacggg	60
acggagcggg tgcggttcct gcacagagac atctataacc aagaggagga cttgcgttc	120
gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggccggcctga cgtgagtac	180
tggaacagcc agaaggactt cctggaagac aggcggggccc tggtgacac ctactgcaga	240
cacaactacg gggttggtga gagcttcaca gtgcagcggc gag	283

&lt;210&gt; 380

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 380ccacgtttct tgcagcagga taagtatgag tgtcatttct tcaacgggac ggagcgggtg	60
cggttcctgc acagagacat ctataacaa gaggaggacg tgcgttcga cagcagctg	120
ggggagtacc gggcgggtgac ggagctgggg cgccctgacg ctgagtactg gaacagccag	180
aaggacttcc tggaagacag gcgcgcgcg gtggacacct actgcagaca caactacggg	240
gttggtgaga gcttcacagt gcagcgg	267

&lt;210&gt; 381

&lt;211&gt; 269

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 381

cacgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg gagcgggtgc	60
ggttcttgca cagagacatc tataaccaag aggaggactt gcgcttcgac agcagctgg	120
gggagtaccg ggcggtgacg gagctggggc ggccctgacgc tgagtactgg aacagccaga	180
aggacatcct ggagcaggcg cgggcgcgcg tggacaccta ctgcagacac aactacgggg	240
ctgtggagag cttcacagtgc cagcggcga	269

&lt;210&gt; 382

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 382

cacgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg gagcgggtgc	60
ggttcttgca cagagacatc tataaccaag aggaggactt gcgcttcgac agcagctgg	120
gggagtaccg ggcggtgacg gagctggggc ggccctgacgc tgagtactgg aacagccaga	180
aggacatcct ggaagacagg gcgcgcgcg tggacaccta ctgcagacac aactacgggg	240
ttggtg	246

&lt;210&gt; 383

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 383

cacgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg gagcgggtgc	60
ggttcttgca cagagacatc tataaccaag aggaggactt gcgcttcgac agcagctgg	120
gggagtaccg ggcggtgacg gagctggggc ggccctgacgc tgagtactgg aacagccaga	180
aggacttctt ggaaaacagg gcgcgcgcg tggacaccta ctgcagacac aactacgggg	240
ttggtg	246

<210> 384  
 <211> 268  
 <212> DNA  
 <213> Homo sapiens

<400> 384  
 cacgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttctctgca cagaggcatc tataaccaag aggagaacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacttctt ggaagacagg cgcgcgcggg tggacaccta ctgcacacaa ctacgggggt 240  
 ggtgagagct tcacagtgcg gcggcgag 268

<210> 385  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 385  
 cacgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttctctgca cagagacatc tataaccaag aggaggactt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacatctt ggagcaggcg cgggcgcggg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtgc cagcggcgag 270

<210> 386  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 386  
 cacgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttctctgca cagagacatc tataaccaag aggaggactt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgacgc cgagtcttgg aacagccaga 180  
 aggacttctt ggagcggagg cgggcgcgagg tggacacagt gtgcagacac aactacgggg 240  
 ttggtgagag cttcacagtgc cagcggcgag 270

<210> 387  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 387  
 atggtgtgtc tgaagctccc tggaggttcc tacatggcag tgctgacagt gacactgatg 60  
 gtgctgagct cccactggc ttggtctggg gacacccgac catgtttctt gcagcaggat 120  
 aagtatgagt gtcatttctt caacgggacg gagcgggtgc ggttctctgca cagaggcatc 180  
 tataaccaag aggagaacgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
 gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacatctt ggagcaggcg 300  
 cgggcgcggg tggacaccta ctgcagacac aactacgggg ctgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 388  
 <211> 262  
 <212> DNA  
 <213> Homo sapiens

<400> 388  
 tttcttgacg caggataagt atgagtgtca tttcttcaac gggacggagc ggggtgcggtt 60  
 cctgcacaga ggcacttata accaagagga gaacgtgcgc ttcgacagcg acgtggggga 120  
 gtaccgggcg gtgacggagc tggggcggcc tgacgtgag tactggaaca gccagaagga 180

catcctggag caggcgcggg ccgcggtgga cacctactgc agacacaact acgggggttg 240  
tgagagcttc acagtgcagc gg 262

<210> 389  
<211> 257  
<212> DNA  
<213> Homo sapiens

<400> 389  
catgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg gagcgggtgc 60  
ggttcttgca cagaggcatc tataaccaag aggagaacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgacgc tgagtactgg aacagccaga 180  
aggacttctt ggagcaggcg cgggcgcggg tggacaccta ctgcagacac aactacgggg 240  
ctgtggagag cttcaca 257

<210> 390  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 390  
catgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg gagcgggtgc 60  
ggttcttgca cagaggcatc tataaccaag aggagaacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggctgacgc tgagtactgg aacagccaga 180  
aggacttctt ggagcaggcg cgggcgcggg tggacaccta ctgcagacac aactacgggg 240  
ctgtggagag cttcacagtg cagcggcgag 270

<210> 391  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 391  
ggtgcggttg ctggaa 16

<210> 392  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 392  
gcggttgctg gaaagat 17

<210> 393  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 393  
ctataaccaa gaggagtc 18

<210> 394  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 394  
ctggggcggc ctgat

15

<210> 395  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 395  
gggcggcctg atgcc

15

<210> 396  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 396  
cacaactacg gggttgg

17

<210> 397  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 397  
catctataac caagaggaa

19

<210> 398  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 398  
cgcggtggac acctat

16

<210> 399  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 399  
gacacaacta cggggc

16

<210> 400  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 400  
agaggcgggc cgcc

14

<210> 401  
<211> 17



<212> DNA  
<213> Homo sapiens

<400> 401  
gaacagccag aaggaca

17

<210> 402  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 402  
ggacatcctg gaagacg

17

<210> 403  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 403  
gacatcctgg aagacga

17

<210> 404  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 404  
ggccgcggtg gacaat

16

<210> 405  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 405  
acaactacgg ggttgtg

17

<210> 406  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 406  
cttcgacagc gacgtga

17

<210> 407  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 407  
cctcctggag caggc

15

<210> 408  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 408  
cacgtttctt gtggg 15

<210> 409  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 409  
tctataacca agaggagta 19

<210> 410  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 410  
gacctcctgg agcagg 16

<210> 411  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 411  
gacctcctgg agcagaa 17

<210> 412  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 412  
ggagcgggtg cggta 15

<210> 413  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 413  
cctggacaga tacttcc 17

<210> 414  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 414  
ccataaccag gaggaga

17

<210> 415  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 415  
ccataaccag gaggagaa

18

<210> 416  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 416  
gcgacgtggg ggagtt

16

<210> 417  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 417  
gcagaagcgg ggccg

15

<210> 418  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 418  
gggccgggtg gacaa

15

<210> 419  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 419  
gggccgggtg gacaat

16

<210> 420  
<211> 13  
<212> DNA  
<213> Homo sapiens

<400> 420  
cacgtttctt gga

13

<210> 421  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 421  
ggtgcggttc ctggag 16

<210> 422  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 422  
cctggagaga tacttcc 17

<210> 423  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 423  
cagatacttc cataaccag 19

<210> 424  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 424  
ttggtgagag cttcacg 17

<210> 425  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 425  
ggtgcggtac ctggac 16

<210> 426  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 426  
ggggcggcct gatga 15

<210> 427  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 427  
gggcggcctg atgag 15

<210> 428  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 428  
cagatacttc cataaccg 18

<210> 429  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 429  
ctggggcggc ctgc 14

<210> 430  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 430  
agcagaagcg gggcc 15

<210> 431  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 431  
gcagaagcgg ggcca 15

<210> 432  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 432  
ggggccaggt ggacaa 16

<210> 433  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 433  
ctggggcggc ctagc 15

<210> 434  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 434  
ggcctgatgc cgagtc

16

<210> 435  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 435  
gacgtggggg agttct

16

<210> 436  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 436  
gtttcttga gtactctac

19

<210> 437  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 437  
ggtgcggttc ctggac

16

<210> 438  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 438  
gtaccgggcg gtgag

15

<210> 439  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 439  
gggccaggtg gacaat

16

<210> 440  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 440  
ttcgacagcg acgtgc

16

<210> 441  
<211> 18

<212> DNA  
<213> Homo sapiens

<400> 441  
ccataaccag gaggagtt 18

<210> 442  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 442  
cctggacaga tacttcg 17

<210> 443  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 443  
ccataaccag gaggagta 18

<210> 444  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 444  
atggtgtgtc tgaagt 16

<210> 445  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 445  
gatacttcta tcaccaagaa 20

<210> 446  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 446  
tcttggagca ggtaaac 18

<210> 447  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 447  
ctatcaccaa gaggagta 18

<210> 448  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 448  
gcagaggcgg gccga 15

<210> 449  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 449  
gggcggcctg acgct 15

<210> 450  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 450  
cttggagcag gttaaaca 18

<210> 451  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 451  
ctggacagat acttctatc 19

<210> 452  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 452  
gctggggcgg cctag 15

<210> 453  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 453  
agaggagtac gtgcgg 16

<210> 454  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 454



gcttcacagt gcagcga

17

<210> 455

<211> 16

<212> DNA

<213> Homo sapiens

<400> 455

cctcctggag cagaga

16

<210> 456

<211> 19

<212> DNA

<213> Homo sapiens

<400> 456

tttcttggag caggtaaa

19

<210> 457

<211> 15

<212> DNA

<213> Homo sapiens

<400> 457

agacaggcgg gccct

15

<210> 458

<211> 17

<212> DNA

<213> Homo sapiens

<400> 458

gaacagccag aaggact

17

<210> 459

<211> 17

<212> DNA

<213> Homo sapiens

<400> 459

aggacttctt ggaagac

17

<210> 460

<211> 15

<212> DNA

<213> Homo sapiens

<400> 460

ggcggcctga tgccc

15

<210> 461

<211> 16

<212> DNA

<213> Homo sapiens

<400> 461

cggggttgag gagaga

16

<210> 462

<211> 15

<212> DNA

<213> Homo sapiens

<400> 462

ggacctctg gagcg

15

<210> 463

<211> 16

<212> DNA

<213> Homo sapiens

<400> 463

ctggggcggc ctgata

16

<210> 464

<211> 16

<212> DNA

<213> Homo sapiens

<400> 464

agtaccgggc ggtgat

16

<210> 465

<211> 15

<212> DNA

<213> Homo sapiens

<400> 465

gggggagtac cgggt

15

<210> 466

<211> 14

<212> DNA

<213> Homo sapiens

<400> 466

gcagaggcgg gcc

14

<210> 467

<211> 15

<212> DNA

<213> Homo sapiens

<400> 467

gcagaggcgg gccct

15

<210> 468  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 468  
tcctggagca gaggca

16

<210> 469  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 469  
caagaggagt acgtgca

17

<210> 470  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 470  
cttggagcag gttaaacc

18

<210> 471  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 471  
gacctcctgg aagacg

16

<210> 472  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 472  
gacctcctgg aagacga

17

<210> 473  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 473  
gacatcctgg agcagaa

17

<210> 474  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 474

agcgacgtgg gggac

15

<210> 475

<211> 15

<212> DNA

<213> Homo sapiens

<400> 475

ggggcggcct gatgg

15

<210> 476

<211> 18

<212> DNA

<213> Homo sapiens

<400> 476

tctatcacca agaggaga

18

<210> 477

<211> 18

<212> DNA

<213> Homo sapiens

<400> 477

ctatcaccaa gaggagaa

18

<210> 478

<211> 15

<212> DNA

<213> Homo sapiens

<400> 478

ggctggggac accca

15

<210> 479

<211> 14

<212> DNA

<213> Homo sapiens

<400> 479

ggacaggcgg ggcc

14

<210> 480

<211> 16

<212> DNA

<213> Homo sapiens

<400> 480

ccaggtggac accgtg

16

<210> 481

<211> 17

<212> DNA

<213> Homo sapiens

<400> 481

tcctgtggca gggtaaa

17

<210> 482

<211> 16

<212> DNA

<213> Homo sapiens

<400> 482

ggcggtgacg gagcta

16

<210> 483

<211> 15

<212> DNA

<213> Homo sapiens

<400> 483

gcctgtcgcc gagtc

15

<210> 484

<211> 18

<212> DNA

<213> Homo sapiens

<400> 484

gtgcagttcc tggaaagt

18

<210> 485

<211> 16

<212> DNA

<213> Homo sapiens

<400> 485

agtcctggaa cagccg

16

<210> 486

<211> 14

<212> DNA

<213> Homo sapiens

<400> 486

ggcggcctgc tgcg

14

<210> 487

<211> 16

<212> DNA

<213> Homo sapiens

<400> 487

gtgacggagc tagggt

16

<210> 488  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 488  
ctctacgggt gagtgtt

17

<210> 489  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 489  
cgggtcctgg acagatat

18

<210> 490  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 490  
gctcctgcat ggcagt

16

<210> 491  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 491  
gtaccgggcg gtgaca

16

<210> 492  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 492  
cacaactacg gggttgt

17

<210> 493  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 493  
gttggtgaga gcttcacg

18

<210> 494  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 494

ttgtggagag cttcacg

17

<210> 495  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 495  
gctggggcgg cctgt

15

<210> 496  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 496  
ggcctgctgc ggagc

15

<210> 497  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 497  
gtttcttgga gtactctag

19

<210> 498  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 498  
ggcctgatgc ggagc

15

<210> 499  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 499  
tctataacca agaggagg

18

<210> 500  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 500  
aggacatcct ggaagac

17

<210> 501  
<211> 15  
<212> DNA

<213> Homo sapiens

<400> 501  
gctggggcgg cctat

15

<210> 502  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 502  
cttgagtagc tctacgtc

18

<210> 503  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 503  
gtttcttgga gtactctat

19

<210> 504  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 504  
caactacggg gctgtg

16

<210> 505  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 505  
ctgtggagag cttcacg

17

<210> 506  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 506  
gagcttcaca gtgcaga

17

<210> 507  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 507  
ctggagcggg ggcgt

15



<210> 508  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 508  
gttgctggaa agacgcg

17

<210> 509  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 509  
ctggagcgga ggcgc

15

<210> 510  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 510  
gaaggacttc ctggaag

17

<210> 511  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 511  
cctggaagac aggcgc

16

<210> 512  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 512  
tgagtgtcat ttcttcaac

19

<210> 513  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 513  
gacttcctgg aagacga

17

<210> 514  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 514

cttggagtac tctacgg

17

<210> 515

<211> 16

<212> DNA

<213> Homo sapiens

<400> 515

ggacctcctg gaagac

16

<210> 516

<211> 17

<212> DNA

<213> Homo sapiens

<400> 516

ggacttcctg gaagacg

17

<210> 517

<211> 19

<212> DNA

<213> Homo sapiens

<400> 517

tctataacca agaggagtt

19

<210> 518

<211> 19

<212> DNA

<213> Homo sapiens

<400> 518

cagatacttc tataaccag

19

<210> 519

<211> 18

<212> DNA

<213> Homo sapiens

<400> 519

ctataaccag gaggagtt

18

<210> 520

<211> 18

<212> DNA

<213> Homo sapiens

<400> 520

ataaccaaga ggaggact

18

<210> 521

<211> 14

<212> DNA

<213> Homo sapiens

<400> 521  
cggaggcggg ccga

14

<210> 522  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 522  
ccgaggtgga cacctat

17

<210> 523  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 523  
aagacaggcg ggccc

15

<210> 524  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 524  
ttggagtact ctacgtc

17

<210> 525  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 525  
gagtactcta cgtctgag

18

<210> 526  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 526  
cagaaggact tcctggaa

18

<210> 527  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 527  
ggccgcggtg gacaa

15

<210> 528  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 528  
ttctataacc aagaggaga 19

<210> 529  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 529  
tctataacca agaggagaa 19

<210> 530  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 530  
cacgtttctt ggagct 16

<210> 531  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 531  
cggcctgatg aggagc 16

<210> 532  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 532  
agacaggcgg gccgt 15

<210> 533  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 533  
gcggcctgat gaggac 16

<210> 534  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 534

gcggcctgat gaggg

15

<210> 535

<211> 15

<212> DNA

<213> Homo sapiens

<400> 535

gttcggggcg gtgag

15

<210> 536

<211> 17

<212> DNA

<213> Homo sapiens

<400> 536

gctcctgcat ggcagtt

17

<210> 537

<211> 16

<212> DNA

<213> Homo sapiens

<400> 537

ttggctgggg acacca

16

<210> 538

<211> 16

<212> DNA

<213> Homo sapiens

<400> 538

ggagcgggtg cggta

16

<210> 539

<211> 17

<212> DNA

<213> Homo sapiens

<400> 539

ccataaccag gaggagc

17

<210> 540

<211> 17

<212> DNA

<213> Homo sapiens

<400> 540

cagaaggaca tcctggg

17

<210> 541

<211> 15

<212> DNA

<213> Homo sapiens

<400> 541  
gagcgggtgc ggttc

15

<210> 542  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 542  
ggaagacgag cgggct

16

<210> 543  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 543  
cctggaagac gagcgc

16

<210> 544  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 544  
ggacatcctg gaagacaa

18

<210> 545  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 545  
acgtttcttg gagtactc

18

<210> 546  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 546  
ggttcctgga cagatact

18

<210> 547  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 547  
acatcctgga gcaggc

16

<210> 548  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 548  
cacaactacg gggttga 17

<210> 549  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 549  
gagatacttc cataaccag 19

<210> 550  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 550  
ctgcagacac aactacc 17

<210> 551  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 551  
taaccaggag gagaacc 17

<210> 552  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 552  
acgtggggga gttcct 16

<210> 553  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 553  
ctggggcggc ctgtc 15

<210> 554  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 554

gggagttccg ggcgt

15

<210> 555

<211> 18

<212> DNA

<213> Homo sapiens

<400> 555

cacgtttctt ggagtact

18

<210> 556

<211> 18

<212> DNA

<213> Homo sapiens

<400> 556

tctacgtctg agtgtcaa

18

<210> 557

<211> 15

<212> DNA

<213> Homo sapiens

<400> 557

gggcggcctg atgct

15

<210> 558

<211> 18

<212> DNA

<213> Homo sapiens

<400> 558

tttcttgag tactctac

18

<210> 559

<211> 16

<212> DNA

<213> Homo sapiens

<400> 559

gacatcctgg agcagg

16

<210> 560

<211> 15

<212> DNA

<213> Homo sapiens

<400> 560

gacggagcgg gtgca

15

<210> 561

<211> 16

<212> DNA



<213> Homo sapiens

<400> 561

ggccgaggtg gacaat

16

<210> 562

<211> 17

<212> DNA

<213> Homo sapiens

<400> 562

ttggagtacc ctacgtc

17

<210> 563

<211> 17

<212> DNA

<213> Homo sapiens

<400> 563

taaccaggag gagttcc

17

<210> 564

<211> 15

<212> DNA

<213> Homo sapiens

<400> 564

gggccgaggt ggacg

15

<210> 565

<211> 17

<212> DNA

<213> Homo sapiens

<400> 565

ctccccactg gctttgt

17

<210> 566

<211> 17

<212> DNA

<213> Homo sapiens

<400> 566

gcagacacaa ctacgga

17

<210> 567

<211> 18

<212> DNA

<213> Homo sapiens

<400> 567

cacaactacg gagttgtg

18

<210> 568  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 568  
gtggcagcct aagagg 16

<210> 569  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 569  
tggacagata cttctataat 20

<210> 570  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 570  
cggctcctgg acagac 16

<210> 571  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 571  
acttcctgga gcaggc 16

<210> 572  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 572  
ggagttccgg gcggc 15

<210> 573  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 573  
ctggaacagc cagaaga 17

<210> 574  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 574  
acgtggggga gttcca 16

<210> 575  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 575  
ctggaacagc caggggaca

19

<210> 576  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 576  
tcctggaaga cagggc

16

<210> 577  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 577  
gcgggtgcgg ttccc

15

<210> 578  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 578  
ctataaccag gaggagaa

18

<210> 579  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 579  
cgtttcttg agctgcg

17

<210> 580  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 580  
ctcccgactg gctttc

16

<210> 581  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 581

cacgtttctt ggagctgt

18

<210> 582  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 582  
cgtttcttgg agctgtg

17

<210> 583  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 583  
ggtgcggtac ctggag

16

<210> 584  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 584  
gtttctcgga gctgcg

16

<210> 585  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 585  
cgggtgcggt acctga

16

<210> 586  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 586  
accaggagga gtacgc

16

<210> 587  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 587  
ccaggaggag ttctga

17

<210> 588  
<211> 12  
<212> DNA

<213> Homo sapiens

<400> 588  
cacgtttctt gg

12

<210> 589  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 589  
cggttcctgg agagac

16

<210> 590  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 590  
gtggacaatt actgcagg

18

<210> 591  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 591  
gggcggcctg atgcg

15

<210> 592  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 592  
agacacttcc ataaccag

18

<210> 593  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 593  
accaggagga gaacgc

16

<210> 594  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 594  
ggagcgggtg cggc

14

<210> 595  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 595  
cacaactacg gggttgc 17

<210> 596  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 596  
gcagacacaa ctacggc 17

<210> 597  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 597  
gctgacagtg acattgac 18

<210> 598  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 598  
cgggccgagg tggg 14

<210> 599  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 599  
agtgtgagtg tcatttcc 18

<210> 600  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 600  
ggagcgagtg tggaac 16

<210> 601  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 601

ggacacctac tgcagat

17

<210> 602

<211> 17

<212> DNA

<213> Homo sapiens

<400> 602

cgcgctacaa cagtgat

17

<210> 603

<211> 16

<212> DNA

<213> Homo sapiens

<400> 603

gggccgaggt ggacaa

16

<210> 604

<211> 18

<212> DNA

<213> Homo sapiens

<400> 604

tggacaacta ctgcagat

18

<210> 605

<211> 16

<212> DNA

<213> Homo sapiens

<400> 605

acggagcgag tgtgga

16

<210> 606

<211> 18

<212> DNA

<213> Homo sapiens

<400> 606

aggttcctac atggcaaa

18

<210> 607

<211> 12

<212> DNA

<213> Homo sapiens

<400> 607

cacgtttctt gc

12

<210> 608

<211> 19

<212> DNA

<213> Homo sapiens

<400> 608

atctataacc aagaggaga

19

<210> 609

<211> 16

<212> DNA

<213> Homo sapiens

<400> 609

cggttcctgc acagag

16

<210> 610

<211> 17

<212> DNA

<213> Homo sapiens

<400> 610

gacttcctgg aagacac

17

<210> 611

<211> 16

<212> DNA

<213> Homo sapiens

<400> 611

cctggaagac acgcgc

16

<210> 612

<211> 17

<212> DNA

<213> Homo sapiens

<400> 612

gaaggacatc ctggaag

17

<210> 613

<211> 18

<212> DNA

<213> Homo sapiens

<400> 613

agaaggactt cctggaaa

18

<210> 614

<211> 15

<212> DNA

<213> Homo sapiens

<400> 614

gcctgacgcc gagtc

15



<210> 615  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 615  
aggacttctt ggagcg 16

<210> 616  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 616  
cgaggtggac accgtg 16

<210> 617  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 617  
ctccctggag gttccta 17

<210> 618  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 618  
gttgctggaa agatgcat 18

<210> 619  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 619  
ctggaaagat gcattata 19

<210> 620  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 620  
gaggagtcgg tgcgc 15

<210> 621  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 621

cggcctgatg ccgag

15

<210> 622

<211> 17

<212> DNA

<213> Homo sapiens

<400> 622

cctgatgccg agtactg

17

<210> 623

<211> 16

<212> DNA

<213> Homo sapiens

<400> 623

cgggggttggt gagagc

16

<210> 624

<211> 17

<212> DNA

<213> Homo sapiens

<400> 624

caagaggaat ccgtgcg

17

<210> 625

<211> 18

<212> DNA

<213> Homo sapiens

<400> 625

ggacacctat tgcagaca

18

<210> 626

<211> 16

<212> DNA

<213> Homo sapiens

<400> 626

ctacggggct gtggag

16

<210> 627

<211> 14

<212> DNA

<213> Homo sapiens

<400> 627

gggccgccgt ggac

14

<210> 628

<211> 18

<212> DNA

<213> Homo sapiens

<400> 628

cagaaggaca tcctggaa

18

<210> 629

<211> 15

<212> DNA

<213> Homo sapiens

<400> 629

ggaagacgag cgggc

15

<210> 630

<211> 15

<212> DNA

<213> Homo sapiens

<400> 630

gaagacgagc gggcc

15

<210> 631

<211> 18

<212> DNA

<213> Homo sapiens

<400> 631

ggtggacaat tactgcag

18

<210> 632

<211> 16

<212> DNA

<213> Homo sapiens

<400> 632

ggggttgtgg agagct

16

<210> 633

<211> 16

<212> DNA

<213> Homo sapiens

<400> 633

cgacgtgagg gactac

16

<210> 634

<211> 14

<212> DNA

<213> Homo sapiens

<400> 634

gagcaggcgc gggc

14

<210> 635  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 635  
ttcttggtggg agcttaag 18

<210> 636  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 636  
agaggagtac gtgcgc 16

<210> 637  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 637  
gagcaggcgc gggc 14

<210> 638  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 638  
gagcagaagc gggcc 15

<210> 639  
<211> 8  
<212> DNA  
<213> Homo sapiens

<400> 639  
caccagac 8

<210> 640  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 640  
ggtgcggtac ctggac 16

<210> 641  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 641

ggtggacaac tactgca

17

<210> 642  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 642  
cggggccggg tgga

14

<210> 643  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 643  
gttcctggag agatactt

18

<210> 644  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 644  
agatacttcc ataaccagg

19

<210> 645  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 645  
ggaggagaac gtgcgc

16

<210> 646  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 646  
ggaggagaac gtgcgc

16

<210> 647  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 647  
cataaccagg aggagtc

17

<210> 648  
<211> 15  
<212> DNA

<213> Homo sapiens

<400> 648

ggggagttcc gggcg

15

<210> 649

<211> 16

<212> DNA

<213> Homo sapiens

<400> 649

agcttcacgg tgcagc

16

<210> 650

<211> 18

<212> DNA

<213> Homo sapiens

<400> 650

gtacctggac agatactt

18

<210> 651

<211> 17

<212> DNA

<213> Homo sapiens

<400> 651

gcctgatgag gagtact

17

<210> 652

<211> 17

<212> DNA

<213> Homo sapiens

<400> 652

cctgatgagg agtactg

17

<210> 653

<211> 16

<212> DNA

<213> Homo sapiens

<400> 653

ccataaccgg gaggag

16

<210> 654

<211> 15

<212> DNA

<213> Homo sapiens

<400> 654

cggcctgctg cggag

15

<210> 655  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 655  
gcggggccag gtgga 15

<210> 656  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 656  
cggggccagg tggac 15

<210> 657  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 657  
cggcctagcg ccgag 15

<210> 658  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 658  
cggcctagcg ccgag 15

<210> 659  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 659  
tgccgagtcc tggaac 16

<210> 660  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 660  
ggagttctgg gcggtg 16

<210> 661  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 661

agtactctac gtctgagt

18

<210> 662  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 662  
gttcctggac agatactt

18

<210> 663  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 663  
gcggtgaggg agctg

15

<210> 664  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 664  
cgacgtgcgg gagttc

16

<210> 665  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 665  
agaaggacat cctggag

17

<210> 666  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 666  
ggaggagttc gtgcgc

16

<210> 667  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 667  
agatacttcg ataaccagg

19

<210> 668  
<211> 18  
<212> DNA



<213> Homo sapiens

<400> 668

ccataaccag gaggagta

18

<210> 669

<211> 16

<212> DNA

<213> Homo sapiens

<400> 669

ggaggagtac gtgcgc

16

<210> 670

<211> 17

<212> DNA

<213> Homo sapiens

<400> 670

gtctgaagtt ccctgga

17

<210> 671

<211> 18

<212> DNA

<213> Homo sapiens

<400> 671

tcaccaagaa gagtacgt

18

<210> 672

<211> 19

<212> DNA

<213> Homo sapiens

<400> 672

caggttaaac atgagtgtc

19

<210> 673

<211> 15

<212> DNA

<213> Homo sapiens

<400> 673

cgggccgagg tggac

15

<210> 674

<211> 17

<212> DNA

<213> Homo sapiens

<400> 674

cctgacgtg agtactg

17

<210> 675  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 675  
agggttaaaca tgagtgtca

19

<210> 676  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 676  
tacttctatc accaagagg

19

<210> 677  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 677  
tacgtgcggt tcgacag

17

<210> 678  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 678  
gagcagagac gggcc

15

<210> 679  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 679  
gcaggttaaa catgagtg

18

<210> 680  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 680  
cgggccctgg tggac

15

<210> 681  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 681

cagaaggact tcctggaa

18

<210> 682  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 682  
ctggaagaca ggcggg

16

<210> 683  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 683  
ctgatgcca gtactgg

17

<210> 684  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 684  
tgtggagaga ttcacagt

18

<210> 685  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 685  
ctggagcgga ggcgg

15

<210> 686  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 686  
gcgggccctg gtgga

15

<210> 687  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 687  
ggcctgatac cgagtac

17

<210> 688  
<211> 16  
<212> DNA

<213> Homo sapiens

<400> 688

ggcggatg gatg gagctg

16

<210> 689

<211> 16

<212> DNA

<213> Homo sapiens

<400> 689

gtaccgggtg gtgacg

16

<210> 690

<211> 15

<212> DNA

<213> Homo sapiens

<400> 690

cagaggcagg ccgcg

15

<210> 691

<211> 17

<212> DNA

<213> Homo sapiens

<400> 691

gtacgtgcac ttcgaca

17

<210> 692

<211> 18

<212> DNA

<213> Homo sapiens

<400> 692

caggttaaacc ctgagtgt

18

<210> 693

<211> 18

<212> DNA

<213> Homo sapiens

<400> 693

aggttaaacc tgagtgtc

18

<210> 694

<211> 15

<212> DNA

<213> Homo sapiens

<400> 694

gtgggggact accgg

15

<210> 695  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 695  
gcctgatggc gagtac 16

<210> 696  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 696  
agaggagaac gtgcgc 16

<210> 697  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 697  
agaggagaac gtgcgc 16

<210> 698  
<211> 7  
<212> DNA  
<213> Homo sapiens

<400> 698  
acccaac 7

<210> 699  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 699  
gacaccgtgt gcagac 16

<210> 700  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 700  
gcagggtaaa tataagtgt 19

<210> 701  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 701

acggagctag ggcgg

15

<210> 702

<211> 16

<212> DNA

<213> Homo sapiens

<400> 702

cgccgagtcc tggaac

16

<210> 703

<211> 18

<212> DNA

<213> Homo sapiens

<400> 703

cctggaaagt ctcttcta

18

<210> 704

<211> 16

<212> DNA

<213> Homo sapiens

<400> 704

gaacagccgg aaggac

16

<210> 705

<211> 16

<212> DNA

<213> Homo sapiens

<400> 705

cctgctgcgg agtact

16

<210> 706

<211> 16

<212> DNA

<213> Homo sapiens

<400> 706

gctagggtgg cctgtc

16

<210> 707

<211> 19

<212> DNA

<213> Homo sapiens

<400> 707

ggtgagtgtt atttcttca

19

<210> 708

<211> 20<212> DNA

<213> Homo sapiens

<400> 708  
tggacagata tttctataac 20

<210> 709  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 709  
gtgtctgagg ctcct 16

<210> 710  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 710  
gcggtgacag agctgg 16

<210> 711  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 711  
cggggttggt gagagc 16

<210> 712  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 712  
cggcctgttg ccgag 15

<210> 713  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 713  
tgcggagcac tggaac 16

<210> 714  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 714  
gtactctacg ggtgagt 17

<210> 715  
<211> 15

<212> DNA  
<213> Homo sapiens

<400> 715  
cggcctgctg ccgag 15

<210> 716  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 716  
gtactctagg ggtgagt 17

<210> 717  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 717  
agaggaggac gtgcgc 16

<210> 718  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 718  
cggcctatcg ccgag 15

<210> 719  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 719  
ctctaagtct gagtgtc 17

<210> 720  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 720  
agtactctat gggtagt 18

<210> 721  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 721  
ggggctgtgg agagc 15



<210> 722  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 722  
gtgcggtatc tgcacag 17

<210> 723  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 723  
ggaggcgtgc cgcg 14

<210> 724  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 724  
gaaagacgcg tccataac 18

<210> 725  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 725  
ggaggcgcgc cgcg 14

<210> 726  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 726  
cctggaagac aggcgc 16

<210> 727  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 727  
ctggaagaca ggcgcg 16

<210> 728  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 728  
acaggcgcg cgcg

14

<210> 729  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 729  
ttcttcaacg ggacgga

17

<210> 730  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 730  
actctacggg tgagtgt

17

<210> 731  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 731  
ccataaccag gaggagaa

18

<210> 732  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 732  
ccataaccag gaggagtt

18

<210> 733  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 733  
agaggagttc gtgcgc

16

<210> 734  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 734  
ctataaccag gaggagtt

18

<210> 735  
<211> 16

<212> DNA  
<213> Homo sapiens

<400> 735  
ggaggacttg cgcttc 16

<210> 736  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 736  
cctggaagac aggcgg 16

<210> 737  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 737  
tacgtctgag tgcatttc 19

<210> 738  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 738  
ttcctggaag acaggcg 17

<210> 739  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 739  
tcttgagct gettaagt 18

<210> 740<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 740  
gcctgatgag gagcac 16

<210> 741  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 741  
atgaggagca ctggaac 17

<210> 742  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 742  
cgggccgtgg tggac 15

<210> 743  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 743  
tgatgaggac tactggaa 18

<210> 744  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 744  
tgatgagggg tactgga 17

<210> 745  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 745  
catggcagtt ctgacagt 18

<210> 746  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 746  
gtgcggttac tggagag 17

<210> 747  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 747  
ggaggagctc ctgcg 15

<210> 748  
<211> 16  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 748

catcctggga gacagg

16

&lt;210&gt; 749

&lt;211&gt; 16

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 749

gtgcggttcc tggaga

16

&lt;210&gt; 750

&lt;211&gt; 15

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 750

gagcgggctg cgggtg

15

&lt;210&gt; 751

&lt;211&gt; 15

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 751

gaagacgagc gcgcc

15

&lt;210&gt; 752

&lt;211&gt; 14

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 752

acgagcgcgc cgcg

14

&lt;210&gt; 753

&lt;211&gt; 16

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 753

ctggaagaca agcggg

16

&lt;210&gt; 754

&lt;211&gt; 16

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 754

ggaagacaag cgggcc

16

&lt;210&gt; 755

&lt;211&gt; 17

<212> DNA  
<213> Homo sapiens

<400> 755  
ggagtactct acgtctg

17

<210> 756  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 756  
gacagatact tctataacc

19

<210> 757  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 757  
cggggttgat gagagc

16

<210> 758  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 758  
acaactaccg ggttgtg

17

<210> 759  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 759  
cggcctgtcg ccgag

15

<210> 760  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 760  
ggagaacctg cgettc

16

<210> 761  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 761  
ggagttcctg gcggtg

16

<210> 762  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 762  
cggcctgtcg ccgag 15

<210> 763  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 763  
ccgggcgttg acgga 15

<210> 764  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 764  
ttggagtact ctacgtct 18

<210> 765  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 765  
ctgagtgta attcttcaat 20

<210> 766  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 766  
cctgatgctg agtactg 17

<210> 767  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 767  
gtttcttgga gtactctac 19

<210> 768  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 768

gcgggtgcag ttcctg

16

<210> 769  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 769  
cgacgtgcgg gaggta

16

<210> 770  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 770  
ccctacgtct gaggta

17

<210> 771  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 771  
ggaggagttc ctgcgc

16

<210> 772  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 772  
ggagttcctg cgcttc

16

<210> 773  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 773  
ggtggacgcc tattgc

16

<210> 774  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 774  
ggctttgtct ggggac

16

<210> 775  
<211> 18  
<212> DNA



<213> Homo sapiens

<400> 775

caactacgga gttgtgga

18

<210> 776

<211> 17

<212> DNA

<213> Homo sapiens

<400> 776

ggagttgtgg agagctt

17

<210> 777

<211> 17

<212> DNA

<213> Homo sapiens

<400> 777

cctaagaggg agtgtca

17

<210> 778

<211> 19

<212> DNA

<213> Homo sapiens

<400> 778

cttctataat caggaggag

19

<210> 779

<211> 18

<212> DNA

<213> Homo sapiens

<400> 779

ctggacagac acttctat

18

<210> 780

<211> 17

<212> DNA

<213> Homo sapiens

<400> 780

agaaggactt cctggag

17

<210> 781

<211> 14

<212> DNA

<213> Homo sapiens

<400> 781

cgggcggcga cgga

14

<210> 782  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 782  
gccagaagaa catcctg 17

<210> 783  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 783  
ggagttccag gcggtg 16

<210> 784  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 784  
caagggacat cctggagc 18

<210> 785  
<211> 14  
<212> DNA  
<213> Homo sapiens

<400> 785  
gacagggccg ccgc 14

<210> 786  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 786  
gcggttcccg gacaga 16

<210> 787  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 787  
ggagctgcgt aagtctg 17

<210> 788  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 788

ctggctttcg ctgggg

16

<210> 789

<211> 18

<212> DNA

<213> Homo sapiens

<400> 789

ttggagctgt gtaagtct

18

<210> 790

<211> 17

<212> DNA

<213> Homo sapiens

<400> 790

ggagctgtgt aagtctg

17

<210> 791

<211> 18

<212> DNA

<213> Homo sapiens

<400> 791

gtacctggag agatactt

18

<210> 792

<211> 18

<212> DNA

<213> Homo sapiens

<400> 792

cgtacctga acagatac

18

<210> 793

<211> 15

<212> DNA

<213> Homo sapiens

<400> 793

gagcagaagc ggggc

15

<210> 794

<211> 16

<212> DNA

<213> Homo sapiens

<400> 794

ggagtacgcg cgcttc

16

<210> 795

<211> 17

<212> DNA

<213> Homo sapiens

<400> 795

agttcctgag cttcgac

17

<210> 796

<211> 18

<212> DNA

<213> Homo sapiens

<400> 796

cgtttcttgg agctgctt

18

<210> 797

<211> 18

<212> DNA

<213> Homo sapiens

<400> 797

ctggagagac acttccat

18

<210> 798

<211> 18

<212> DNA

<213> Homo sapiens

<400> 798

ttactgcagg cacaacta

18

<210> 799

<211> 17

<212> DNA

<213> Homo sapiens

<400> 799

cctgatgcgg agtactg

17

<210> 800

<211> 15

<212> DNA

<213> Homo sapiens

<400> 800

ggaggagaac gcgcg

15

<210> 801

<211> 16

<212> DNA

<213> Homo sapiens

<400> 801

ggagaacgcg cgcttc

16

<210> 802  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 802  
cgtttcttgc agctgctt

18

<210> 803  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 803  
ggtgcggctc ctgga

15

<210> 804  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 804  
cggggttgct gagagc

16

<210> 805  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 805  
aactacggcg ttgtgga

17

<210> 806  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 806  
gacattgacg gtgctga

17

<210> 807  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 807  
cgaggtgggc acctac

16

<210> 808  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 808

gtgtggaacc tgatcag

17

<210> 809

<211> 18

<212> DNA

<213> Homo sapiens

<400> 809

ggacacctat tgcagata

18

<210> 810

<211> 17

<212> DNA

<213> Homo sapiens

<400> 810

aacagtgatc tggggga

17

<210> 811

<211> 19

<212> DNA

<213> Homo sapiens

<400> 811

tactgcagat acaactacg

19

<210> 812

<211> 18

<212> DNA

<213> Homo sapiens

<400> 812

tgtcatttcc tcaatggg

18

<210> 813

<211> 17

<212> DNA

<213> Homo sapiens

<400> 813

gagtgtggaa cctgatc

17

<210> 814

<211> 17

<212> DNA

<213> Homo sapiens

<400> 814

catggcaaag ctgacag

17

<210> 815

<211> 18

<212> DNA

<213> Homo sapiens

<400> 815

cgtttcttgc agcaggat

18

<210> 816

<211> 18

<212> DNA

<213> Homo sapiens

<400> 816

ctgcacagag gcatctat

18

<210> 817

<211> 15

<212> DNA

<213> Homo sapiens

<400> 817

gaagacacgc gcgcc

15

<210> 818

<211> 14

<212> DNA

<213> Homo sapiens

<400> 818

acacgcgcgc cgcg

14

<210> 819

<211> 16

<212> DNA

<213> Homo sapiens

<400> 819

cctggaaaac aggccg

16

<210> 820

<211> 17

<212> DNA

<213> Homo sapiens

<400> 820

aggttcttac atggcag

17

<210> 821

<211> 18

<212> DNA

<213> Homo sapiens

<400> 821

tgtttcttgc agcaggat

18

<210> 822  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 822  
agagtactcc aagaaacgtg 20

<210> 823  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 823  
ccgctgcacc gtgaagct 18

<210> 824  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 824  
tcgctgcact gtgaagct 18

<210> 825  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 825  
cctctgcact gtgaagct 18

<210> 826  
<211> 27  
<212> DNA  
<213> Homo sapiens

<400> 826  
ccggaacatt cgtgtcccca cagcacg 27

<210> 827  
<211> 21  
<212> DNA  
<213> Homo sapiens

<400> 827  
aaccacgtag ttgtgtctgc a 21



## SEQUENCE LISTING MICA

<110> CANON KABUSHIKI KAISHA

<120> Probe set and method for identifying HLA allele

<130> g10003828mica

<150> JP2003-430559

<151> 2003-12-25

<160> 162

<170> PatentIn version 3.2

<210> 1

<211> 18

<212> DNA

<213> Homo sapiens

<400> 1

tgggacagag agaccaga

18

<210> 2

<211> 19

<212> DNA

<213> Homo sapiens

<400> 2

tcccaaaacc tggagacta

19

<210> 3

<211> 20

<212> DNA

<213> Homo sapiens

<400> 3

ggaactacgg cgatatctaa

20

<210> 4

<211> 19

<212> DNA

<213> Homo sapiens

<400> 4

cggcgatatc taaaatccg

19

<210> 5

<211> 19

<212> DNA

<213> Homo sapiens

<400> 5

cctggaatat cacactgag

19

<210> 6

<211> 25

<212> DNA  
<213> Homo sapiens

<400> 6  
tatttttggtt attattattt tctac

25

<210> 7  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 7  
cctcacggtg ctgtccg

17

<210> 8  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 8  
gtgaatgtca cccgcagt

18

<210> 9  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 9  
cgtagtcctg aggagaag

18

<210> 10  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 10tcagcctctg atgtcagc

18

<210> 11  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 11  
cagcccttc tgcgcta

17

<210> 12  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 12  
gagactgagg aatggacag

19

<210> 13  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 13  
cccggaatat cacactgac

19

<210> 14  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 14  
gccaccagga ttgccg

17

<210> 15  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 15  
gcgatatcta gaatccagca

20

<210> 16  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 16  
gggacagaga gaccagg

17

<210> 17  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 17  
cccaaaacct ggagactg

18

<210> 18  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 18  
gtttctgctg ttgctgctg

19

<210> 19  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 19  
agacctgggt ggccact

17

<210> 20  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 20tgctgctggc tgctgct

17

<210> 21  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 21  
cacccgcagc gaggca

16

<210> 22  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 22  
ctcttcctct cccaaaacg

19

<210> 23  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 23  
gctcccagca tttctactat

20

<210> 24  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 24  
cggcgatatc tagaatcca

19

<210> 25  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 25  
gtcagctctt ggggccg

17

<210> 26  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 26  
ccatgaagac caagacact

19

<210> 27  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 27  
tgccaaggag aggagcaa 18

<210> 28  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 28  
gaactacggc gatatttag 19

<210> 29  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 29  
ccagcatttc tactacgata 20

<210> 30  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 30  
gctgcagagg gtccagg 17

<210> 31  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 31  
ctggcgtcag gatgggc 17

<210> 32  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 32  
ggcttgcatc ccctccg 17

<210> 33  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 33

cccagttggg acgagtgt

18

<210> 34  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 34  
ctgctgctgc tgctgct

17

<210> 35  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 35  
agaagatgtc ctgggaaac

19

<210> 36  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 36  
tgtgcagtca gggtttctt

19

<210> 37  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 37  
gcctcagagg gcaacatc

18

<210> 38  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 38  
ctgctgctgc tgctgct

17

<210> 39  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 39  
ttctatcccc ggaatatcat

20

<210> 40  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 40gttgctgctg ctgctget

18

<210> 41

<211> 19

<212> DNA

<213> Homo sapiens

<400> 41

cagaccttgg ccatgaaca

19

<210> 42

<211> 18

<212> DNA

<213> Homo sapiens

<400> 42

ggaatcacag cactcacg

18

<210> 43

<211> 20

<212> DNA

<213> Homo sapiens

<400> 43

acggcgatat ctaaaatcca

20

<210> 44

<211> 19

<212> DNA

<213> Homo sapiens

<400> 44

ctctcccaaa acctggagt

19

<210> 45

<211> 19

<212> DNA

<213> Homo sapiens

<400> 45

ttcttgaagg aagatgccg

19

<210> 46

<211> 20

<212> DNA

<213> Homo sapiens

<400> 46

catgaagaca acagcaccaa

20

<210> 47

<211> 17

<212> DNA

<213> Homo sapiens

<400> 47 gggtttctcg ctgaggg	17
<210> 48 <211> 18 <212> DNA <213> Homo sapiens	
<400> 48 caaggagagg agcagagt	18
<210> 49 <211> 17 <212> DNA <213> Homo sapiens	
<400> 49 ggccaccagg atttgcg	17
<210> 50 <211> 18 <212> DNA <213> Homo sapiens	
<400> 50 cagggcttct ggcttctg	18
<210> 51 <211> 20 <212> DNA <213> Homo sapiens	
<400> 51 agaaaacatc agctgcagat	20
<210> 52 <211> 19 <212> DNA <213> Homo sapiens	
<400> 52 atcaacaccc agttgggat	19
<210> 53 <211> 19 <212> DNA <213> Homo sapiens	
<400> 53 agagaccaga gacttgaca	19
<210> 54 <211> 19	



<212> DNA  
<213> Homo sapiens

<400> 54  
ctggagacta aggaatgga 19

<210> 55  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 55  
cgatatctaa aatccggcg 19

<210> 56  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 56  
ctaaaatccg gcgtagtcc 19

<210> 57  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 57  
cacactgagc tggcgtc 17

<210> 58  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 58  
attattttct acgtctgttg tt 22

<210> 59  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 59  
tgctgtccgg ggatgga 17

<210> 60  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 60  
acccgcagtg aggctc 17

<210> 61  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 61  
gaggagaaga gtgccc 17

<210> 62  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 62  
tgatgtcagc tctgggtc 19

<210> 63  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 63  
cctgcgctat gacaggc 17

<210> 64  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 64  
gaatggacag tgccccag 18

<210> 65  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 65  
cacactgacc tggcgtc 17

<210> 66  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 66  
ggatttgccg aggagagg 18

<210> 67  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 67

gaatccagca tagtcctga

19

<210> 68  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 68  
agagaccagg gacttgac

18

<210> 69  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 69  
ctggagactg aggaatgg

18

<210> 70  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 70gttgctgctg gctgctg

17

<210> 71  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 71  
ggtggccact aggatttg

18

<210> 72  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 72  
gctgctggct gctgcta

17

<210> 73  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 73  
agcgaggcat cagaggg

17

<210> 74  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 74  
tcccaaaacg tggagactg 19

<210> 75  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 75  
atttctacta tgatggggag 20

<210> 76  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 76  
ctagaatcca gcgtagtcc 19

<210> 77  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 77  
tgggtccgct ggctcc 16

<210> 78  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 78  
ccaagacact ctatcacgc 19

<210> 79  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 79  
agaggagcaa aggttcacc 19

<210> 80  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 80  
cgatatctag aatccggcg 19

<210> 81  
<211> 19

<212> DNA  
<213> Homo sapiens

<400> 81  
tactacgata gggagctct 19

<210> 82  
<211> 16  
<212> DNA  
<213> Homo sapiens

<400> 82  
gggtccaggg ctctgtg 16

<210> 83  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 83  
caggatgggc tatcttga 19

<210> 84  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 84  
attccctcgg ggagattag 19

<210> 85  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 85  
tgctgctgct gctgctat 18

<210> 86  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 86  
ctgctgctgc tattttgtt 20

<210> 87  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 87  
cctgggaaac aagacatgg 19

<210> 88  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 88  
agggtttctt gctgaggta 19

<210> 89  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 89  
gggcaacatc accgtgac 18

<210> 90  
<211> 18  
<212> DNA  
<213> Homo sapiens  
  
<400> 90gctgctgctg ctgctatt 18

<210> 91  
<211> 20<212> DNA  
<213> Homo sapiens

<400> 91  
cggaatatca tactgacctg 20

<210> 92  
<211> 20  
<212> DNA  
<213> Homo sapiens

<400> 92  
gccatgaaca tcaggaattt 20

<210> 93  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 93  
gcactcacgc tgtgccc 17

<210> 94  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 94  
ctaaaatcca gcgtagtcc 19

<210> 95

<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 95  
aacctggagt ctgaggaat 19

<210> 96  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 96  
gaagatgccg tgaagacc 18

<210> 97  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 97  
cagcaccaag agtcccc 17

<210> 98  
<211> 17  
<212> DNA  
<213> Homo sapiens

<400> 98  
cgctgaggga catctgg 17

<210> 99  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 99  
ggagcagagt ttcacctg 18

<210> 100  
<211> 19  
<212> DNA  
<213> Homo sapiens

<400> 100  
aggatttgcg aaggagagg 19

<210> 101  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 101  
ctggcttctg tccctgga 18

<210> 102  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 102  
agctgcagat ggtccaga 18

<210> 103  
<211> 18  
<212> DNA  
<213> Homo sapiens

<400> 103  
cagttgggat gagtgacc 18

<210> 104  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 104  
agtggagcca gtggaccaa ga 22

<210> 105  
<211> 23  
<212> DNA  
<213> Homo sapiens

<400> 105  
tgatgttttc ttctacaac aac 23

<210> 106  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 106  
gtcttcgtta taacctcacg gt 22

<210> 107  
<211> 22  
<212> DNA  
<213> Homo sapiens

<400> 107  
gctcgtgagc ctgcaggccc tg 22

<210> 108  
<211> 22  
<212> DNA  
<213> Homo sapiens



<400> 108  
agtggagcca gtggacccaa ga

22

<210> 109  
<211> 1082  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (873)..(875)  
<223> n is a, c, g, or t

<220>  
<221> misc\_feature  
<222> (882)..(899)  
<223> n is a, c, g, or t

<400> 109  
gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtc gggtttctca 60  
ctgaggtaca tctggatggc cagcccttc tgcgtgtga caggcagaaa tgcagggcaa 120  
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
gagacttgac agggaaacgga aaggacctca gcatgacct ggctcatatc aaggaccaga 240  
aagaaggett gcattccctc caggagatta gggctgtga gatccatgaa gacaacagca 300  
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
ctaaggaatg gacaatgccc cagtctcca gagtcagac ctggccatg aacgtcagga 420  
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcctc 540  
ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg 600  
cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660  
gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaattgaacc taccagacct 720  
gggtggccac caggatttgc caaggagagg agcagagggt cacctgtac atggaacaca 780  
gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840  
ggcagacatt ceatgtttct gctgttctg cttnngctgc tnnnnnnnnn nnnnnnnna 900  
ttttgttat tattatttc tatgtccgtt gttgtaagaa gaaaacatca gctgcagagg 960  
gtccagagct cgtgagcctg caggtcctgg atcaacccc agttgggacg agtgaccaca 1020  
gggatgccac acagctcgga ttacgctc tgatgtcaga tcttgggtcc actggctcca 1080  
ct 1082

<210> 110  
<211> 1076  
<212> DNA  
<213> Homo sapiens

<400> 110  
gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtc gggtttctcg 60  
ctgaggtaca tctggatggc cagcccttc tgcgtgtga caggcagaaa tgcagggcaa 120  
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
gggacttgac agggaaacgga aaggacctca gcatgacct ggctcatatc aaggaccaga 240  
aagaaggett gcattccctc caggagatta gggctgtga gatccatgaa gacaacagca 300  
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
ctgaggaatg gacaatgccc cagtctcca gagtcagac ctggccatg aacgtcagga 420  
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcctc 540  
ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg 600  
cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660

gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840  
 ggcagacatt ccatgtttct gctgttctg ctgctgctgc tgcctgctgct gctatttttg 900  
 ttattattat tttctacgtc tgtgttga agaagaaaac atcagctgca gagggtccag 960  
 agctcgtgag cctgcaggtc ctggatcaac acccagttgg gacgagtgac cacagggatg 1020  
 ccacacagct cggatttcag cctctgatgt cagatcttgg gtccactggc tccact 1076

<210> 111  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

<400> 111  
 gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg 60  
 ctgaggtaca tctggatggg cagcccttcc tgcgtgtga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaaacga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctccaa aacctggaga 360  
 ctgaggaatg gacaatgccc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgtccc 540  
 ccattgtgaa tgtcacccgc agtgaggcct cagagggcaa cattaccgtg acatgcaggg 600  
 cttctggctt ctatccctg aatatcacac tgagctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctg 813

<210> 112  
 <211> 1067  
 <212> DNA  
 <213> Homo sapiens

<400> 112  
 gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttcttg 60  
 ctgaggtaca tctggatggg cagcccttcc tgcgtatga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaaacga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctccaa aacgtggaga 360  
 ctgaggaatg gacagtcccc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga agagtgtccc 540  
 ccattgtgaa tgtcacccgc agcaggcct cagagggcaa catcacctg acatgcaggg 600  
 cttccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840  
 ggcagacatt ccatgtttct gctgttctg ctgctgctgc tgcattttt gttattatta 900  
 tttctatgt ccgttgtgt aagaagaaa catcagctgc agagggtcca gagctcgtga 960  
 gcctgcaggt cctggatcaa caccagttg ggacagtgga ccacagggat gccacacagc 1020  
 toggatttca gcctctgatg tcagctcttg ggtccactgg ctccact 1067

<210> 113  
 <211> 812  
 <212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 113

```

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttcttg      60
ctgaggtaca tctggatggg cagcccttc tgcgtatga caggcagaaa tgcagggcaa      120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca      180
gggacttgac agggaaacga aaggacctca ggatgacctt ggctcatatc aaggaccaga      240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca      300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga      360
ctgaggaatg gacagtgtcc cagtctcca gagctcagac cttggccatg aacgtcagga      420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact      480
gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgtccc      540
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg      600
cttcagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg gtatctttga      660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct      720
gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac atggaacaca      780
gcgggaatca cagactcac cctgtgcct ct

```

&lt;210&gt; 114

&lt;211&gt; 1067

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 114

```

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttcttg      60
ctgaggtaca tctggatggg cagcccttc tgcgtatga caggcagaaa tgcagggcaa      120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca      180
gggacttgac agggaaacga aaggacctca ggatgacctt ggctcatatc aaggaccaga      240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca      300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga      360
ctgaggaatg gacagtgtcc cagtctcca gagctcagac cttggccatg aacgtcagga      420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact      480
gcctgcagga actacggcga tatctagaat ccagcatagt cctgaggaga acagtgtccc      540
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg acatgcaggg      600
cttcagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg gtatctttga      660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct      720
gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac atggaacaca      780
gcgggaatca cagactcac cctgtgcct ctgggaaagt gctggtgctt cagagtcatt      840
ggcagacatt ccatgtttct gctgttgctg ctgctgtgc tgctatttt gttattatta      900
ttttctatgt ccgtttgtt aagaagaaaa catcagctgc agagggtcca gagctcgtga      960
gcctgcaggt cctgatcaa caccagtgg ggacgagtga ccacaggat gccacacagc      1020
tcggatttca gcctctgat tcagctcttg ggtccactgg ctccact

```

&lt;210&gt; 115

&lt;211&gt; 945

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 115

```

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttctcg      60
ctgaggtaca tctggatggg cagcccttc tgcgtatga caggcagaaa tgcagggcaa      120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca      180
gggacttgac agggaaacga aaggacctca ggatgacctt ggctcatatc aaggaccaga      240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca      300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga      360
ctgaggaatg gacaatgtcc cagtctcca gagctcagac cttggccatg aacgtcagga      420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact      480
gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgtccc      540

```

ccatggtgaa tgtcacccgc agtgaggcct cagagggcaa cattaccgtg acatgcaggg 600  
 cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatcttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagaggtt cacctgtac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840  
 ggacagacatt ccatgtttct gctgttctg ctgctgtat tttgttatt attatttct 900  
 atgtccgttg ttgtaagaag aaaacatcag ctgcagaggg tccag 945

<210> 116  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

<400> 116  
 gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtc gggtttctcg 60  
 ctgaggtaca tctggatggc cagcccttcc tgcgtgtga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctgtgta gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctccaa aacctggaga 360  
 ctgaggaatg gacaatgcc cagtctcca gagctcagac cttggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtcccc 540  
 ccatggtgaa tgtcacccgc agcagggcct cagagggcaa cattaccgtg acatgcaggg 600  
 cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatcttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagaggtt cacctgtac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctg 813

<210> 117  
 <211> 1065  
 <212> DNA  
 <213> Homo sapiens

<400> 117  
 gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtc gggtttcttg 60  
 ctgaggtaca tctggatggc cagcccttcc tgcgtatga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctgtgta gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctccaa aacctggaga 360  
 ctgaggaatg gacagtcccc cagtctcca gagctcagac cttggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact 480  
 gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga acagtcccc 540  
 ccatggtgaa tgtcacccgc agcagggcct cagagggcaa catcacctg acatgcaggg 600  
 ctccagctt ctatccccgg aatatcaca tgacctggcg tcaggatggg gtatcttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caggagagg agcagaggtt cacctgtac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840  
 ggacagacatt ccatgtttct gctgttctg ctgctgtat ctattttgt tattattatt 900  
 ttctatgtcc gttgttgtaa gaagaaaaca tcagctgcag agggctcaga gctcgtgagc 960  
 ctgcaggtcc tggatcaaca ccagttggg acgagtgcac acagggatgc cacacagctc 1020  
 ggaattcagc ctctgatgc agctcttggg tccactggct cact 1065

<210> 118  
 <211> 949  
 <212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

```

gtcttcgtta taacctcacg gtgtgtcct gggatggatc tgtgcagtca gggtttcttg      60
ctgaggtaca tctggatggg cagcccttcc tgcgtatga caggcagaaa tgcagggcaa      120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca      180
gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga      240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca      300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga      360
ctgaggaatg gacagtcccc cagtctcca gagctcagac cttggccatg aacgtcagga      420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact      480
gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga acagtgtccc      540
ccatggtgaa tgcacccgc agcgaggcct cagagggcaa catcacctg acatgcaggg      600
cttcagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg gtatctttga      660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct      720
gggtggccac taggatttgc cgaggagagg agcagagggt cacctgctac atggaacaca      780
gcgggaatca cagcactcac cctgtgcct ctgggaaagt gctggtgctt cagagtcatt      840
ggcagacatt ccatgtttct gctgttctg ctggtgctg ctattttgt tattattatt      900
ttctatgtcc gttgttgtaa gaagaaaaca tcagctgcag aggggccag      949

```

&lt;210&gt; 119

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 119

```

gtcttcgtta taacctcacg gtgtgtcct gggatggatc tgtgcagtca gggtttcttg      60
ctgaggtaca tctggatggg cagcccttcc tgcgtatga caggcagaaa tgcagggcaa      120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca      180
gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga      240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca      300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga      360
ctgaggaatg gacagtcccc cagtctcca gagctcagac cttggccatg aacgtcagga      420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact      480
gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga acagtgtccc      540
ccatggtgaa tgcacccgc agcgaggcct cagagggcaa catcacctg acatgcaggg      600
cttcagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg gtatctttga      660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct      720
gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac atggaacaca      780
gcgggaatca cagcactcac cctgtgcct ctg      813

```

&lt;210&gt; 120

&lt;211&gt; 1067

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 120

```

gtcttcgtta taacctcacg gtgtgtcct gggatggatc tgtgcagtca gggtttcttg      60
ctgaggtaca tctggatggg cagcccttcc tgcgtatga caggcagaaa tgcagggcaa      120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca      180
gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga      240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca      300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga      360
ctgaggaatg gacagtcccc cagtctcca gagctcagac cttggccatg aacgtcagga      420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact      480
gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga acagtgtccc      540
ccatggtgaa tgcacccgc agcgaggcct cagagggcaa catcacctg acatgcaggg      600
cttcagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg gtatctttga      660

```

```

gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720
gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac atggaacaca 780
gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840
ggcagacatt ccatgtttct gctgttctg ctgctgctgc tgctattttt gttattatta 900
ttttctatgt cgttgttgt aagaagaaaa catcagctgc agagggtcca gagctcgtga 960
gcctgcaggt cctggatcaa caccagttg ggacgagtga ccacagggat gccacacaga 1020
tcggatttca gcctctgatg tcagctcttg ggtccactgg ctccact 1067

```

<210> 121  
 <211> 1067  
 <212> DNA  
 <213> Homo sapiens

```

<400> 121
gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttcttg 60
ctgaggtaca tctggatggg cagcccttcc tgcgtatga caggcagaaa tgcagggcaa 120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180
gggacttgac agggaacgga aaggacctca gcatgacctt ggctcatatc aaggaccaga 240
aagaaggctt gcattccctc caggagatta ggtctgtga gatccatgaa gacaacagca 300
ccaggagctc ccagcatttc tactatgatg gggagctctt cctctcccaa aacgtggaga 360
ctgaggaatg gacagtggcc cagtctcca gagctcagac ctggccatg aacgtcagga 420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480
gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga acagtgtccc 540
ccatggtgaa tgcacccgc agcgaggcct cagagggcaa catcaccgtg acatgcaggg 600
cttcagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg gtatctttga 660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720
gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac atggaacaca 780
gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840
ggcagacatt ccatgtttct gctgttctg ctgctgctgc tgctattttt gttattatta 900
ttttctatgt cgttgttgt aagaagaaaa catcagctgc agagggtcca gagctcgtga 960
gcctgcaggt cctggatcaa caccagttg ggacgagtga ccacagggat gccacacaga 1020
tcggatttca gcctctgatg tcagctcttg ggtccactgg ctccact 1067

```

<210> 122  
 <211> 1064  
 <212> DNA  
 <213> Homo sapiens

```

<400> 122
gtcttcctta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttcttg 60
ctgaggtaca tctggatggg cagcccttcc tgcgtatga caggcagaaa tgcagggcaa 120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180
gggacttgac agggaacgga aaggacctca gcatgacctt ggctcatatc aaggaccaga 240
aagaaggctt gcattccctc caggagatta ggtctgtga gatccatgaa gacaacagca 300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360
ctgaggaatg gacagtggcc cagtctcca gagctcagac ctggccatg aacgtcagga 420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480
gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga acagtgtccc 540
ccatggtgaa tgcacccgc agcgaggcct cagagggcaa catcaccgtg acatgcaggg 600
cttcagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg gtatctttga 660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720
gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac atggaacaca 780
gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840
ggcagacatt ccatgtttct gctgttctg ctgctgctgc tatttttgtt attattattt 900
tctatgtccg ttgttgtaag aagaaaacat cagctgcaga ggtccagag ctctgagcc 960
tgcaggtcct ggatcaaac ccagttggga cgatgacca cagggatgcc acacagctcg 1020
gatttcagcc tctgatgtca gctcttgggt ccaactgctc cact 1064

```

<210> 123  
 <211> 1067  
 <212> DNA  
 <213> Homo sapiens

<400> 123  
 gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg 60  
 ctgaggtaca tctggatggc cagcccttc tgcgtgtga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaacgga aaggacctca ggatgacct ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacaatgccc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc gtgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcgcc 540  
 ccatggtgaa tgcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg 600  
 cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac gctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840  
 ggagacatt ccatgtttct gctgttgctg ctgctgctgc tgctatttt gtattatta 900  
 tttctatgt ctgtttgtt aagaagaaaa catcagctgc agagggcca gagctcgtga 960  
 gcctgcaggt cctggatcaa caccagttg ggacagtgga ccacaggat gccacacagc 1020  
 tcggatttca gcctctgatg tcagctcttg ggtccgctgg ctccact 1067

<210> 124  
 <211> 1061  
 <212> DNA  
 <213> Homo sapiens

<400> 124  
 gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttctca 60  
 ctgaggtaca tctggatggc cagcccttc tgcgtgtga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gagacttgac agggaacgga aaggacctca ggatgacct ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacaatgccc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacactcta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcgcc 540  
 ccatggtgaa tgcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg 600  
 cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840  
 ggagacatt ccatgtttct gctgttgctg ctgctgctat tttgttatt attattttct 900  
 atgtccgttg ttgtaagaag aaaacatcag ctgcagaggg tccagagctc gtgagcctgc 960  
 aggtcctgga tcaacacca gttgggacga gtgaccacag ggatgccaca cagctcggat 1020  
 ttcagcctct gatgtcagat ctgggtcca ctggctccac t 1061

<210> 125  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

<400> 125  
 gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttctca 60

```

ctgaggtaca tctggatggt cagcccttcc tgcgtgtga caggcagaaa tgcagggcaa 120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180
gagacttgac agggaacgga aaggacctca gcatgaccct ggctcatatc aaggaccaga 240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360
ctgaggaatg gacaatgccc cagtctcca gagctcagac cttggccatg aacgtcagga 420
atttcttgaa ggaagatgcc atgaagacca agacactcta tcacgctatg catgcagact 480
gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgtccc 540
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg 600
cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720
gggtggccac caggatttgc caaggagagg agcaaagggt cacctgctac atggaacaca 780
gcgggaatca cagcactcac cctgtgcct ctg 813

```

<210> 126  
<211> 812  
<212> DNA  
<213> Homo sapiens

```

<400> 126
gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg 60
ctgaggtaca tctggatggt cagcccttcc tgcgtgtga caggcagaaa tgcagggcaa 120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180
gggacttgac agggaacgga aaggacctca gcatgaccct ggctcatatc aaggaccaga 240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360
ctgaggaatg gacagtgtcc cagtctcca gagctcagac cttggccatg aacgtcagga 420
atttcttgaa ggaagatgcc atgaagacca agacactcta tcacgctatg catgcagact 480
gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga acagtgtccc 540
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg 600
cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720
gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac atggaacaca 780
gcgggaatca cagcactcac cctgtgcct ct 812

```

<210> 127  
<211> 812  
<212> DNA  
<213> Homo sapiens

```

<400> 127
gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg 60
ctgaggtaca tctggatggt cagcccttcc tgcgtgtga caggcagaaa tgcagggcaa 120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180
gggacttgac agggaacgga aaggacctca gcatgaccct ggctcatatc aaggaccaga 240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300
ccaggagctc ccagcatttc tactacgata gggagctctt cctctcccaa aacctggaga 360
ctgaggaatg gacaatgccc cagtctcca gagctcagac cttggccatg aacgtcagga 420
atttcttgaa ggaagatgcc atgaagacca agacactcta tcacgctatg catgcagact 480
gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga agagtgtccc 540
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg 600
cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720
gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac atggaacaca 780
gcgggaatca cagcactcac cctgtgcct ct 812

```

<210> 128



<211> 969  
 <212> DNA  
 <213> Homo sapiens

<400> 128  
 gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg 60  
 ctgaggtaca tctggatggg cagcccttcc tgcgtgtga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaaacgga aaggacctca ggtatgacct ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgata gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacaatgccc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcgcc 540  
 ccatggtgaa tgtcacccgc agcgaggcct cagaggggcaa cattaccgtg acatgcaggg 600  
 cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagagggt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctggaagtgt ctggtgcttc agagtcattg 840  
 gcagacattt catgtttctg ctgttgctgc tgctgctgct gctgctgctg ctatttttgt 900  
 tattattatt ttctacgtct gttgtttaa gaagaaaaca tcagctgcag aggggtccagg 960  
 gctcgtgag 969

<210> 129  
 <211> 1064  
 <212> DNA  
 <213> Homo sapiens

<400> 129  
 gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttcttg 60  
 ctgaggtaca tctggatggg cagcccttcc tgcgtatga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaaacgga aaggacctca ggtatgacct ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacagtcccc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga acagtgcgcc 540  
 ccatggtgaa tgtcacccgc agcgaggcct cagaggggcaa catcaccgtg acatgcaggg 600  
 ctccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg ctatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctgggaagt gctggtgctt cagagtcatt 840  
 ggacagacatt ccatgtttct gctgttgctg ctgctgctgc tatttttgtt attattattt 900  
 tctatgtccg ttgttgaag aagaaaacat cagctgcaga gggccagag ctctgagcc 960  
 tgcaggtcct ggatcaacac ccagttggga cgagtgaaca cagggatgcc acacagctcg 1020  
 gatttcagcc tctgatgtca gctcttgggt ccactggctc cact 1064

<210> 130  
 <211> 969  
 <212> DNA  
 <213> Homo sapiens

<400> 130  
 gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg 60  
 ctgaggtaca tctggatggg cagcccttcc tgcgtgtga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaaacgga aaggacctca ggtatgacct ggctcatatc aaggaccaga 240

aagaaggett gcattccctc egggagatta gggctctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacaatgccc cagtctcca gagctcagac cttggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat cggcgtagt cctgaggaga acagtgcgcc 540  
 ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg 600  
 cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctggaaagt ctgggtgctc agagtcattg 840  
 gcagacattc catgtttctg ctgttctgc tctgtctgt gctgtctgt ctattttgt 900  
 tattattatt ttctacgtct gttgtttaa gaagaaaaca tcagctgcag aggggtccagg 960  
 gctcgtgag 969

<210> 131  
 <211> 1061  
 <212> DNA  
 <213> Homo sapiens

<400> 131  
 gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttctca 60  
 ctgaggtaca tctggatggc cagcccttcc tgcgtatga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gagacttgac agggaaacga aaggacctca gcatgacctt ggctcatatc aaggaccaga 240  
 aagaaggett gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacaatgccc cagtctcca gagctcagac cttggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat cggcgtagt cctgaggaga acagtgcgcc 540  
 ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg 600  
 cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctgggtgctt cagagtcatt 840  
 ggcagacatt ccatgtttct gctgttctg ctgctgtat ttttgtatt attattttct 900  
 atgtccgttg ttgtaagaag aaaacatcag ctgcagaggg tccagagctc gtgagcctgc 960  
 aggtcctgga tcaacacca gttgggacga gtgaccacag gcatgccaca cagtcggat 1020  
 ttcagcctct gatgctcagat cttgggtcca ctggctccac t 1061

<210> 132  
 <211> 997  
 <212> DNA  
 <213> Homo sapiens

<400> 132  
 gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttcttg 60  
 ctgaggtaca tctggatggc cagcccttcc tgcgtatga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaaacga aaggacctca gcatgacctt ggctcatatc aaggaccaga 240  
 aagaaggett gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacagtgccc cagtctcca gagctcagac cttggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga acagtgcgcc 540  
 ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa catcaccgtg acatgcaggg 600  
 cttccagctt ctatcccccg aatatcatat tgacctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780

gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840  
 ggcagacatt ccattgttct gctgttctg ctgctgctgc tatttttatt attattattt 900  
 tctatgtccg ttgttgaag aagaaaacat cagctgcaga gggccagag ctcgtgagcc 960  
 tgcaggtcct ggatcaacac ccagttggga cgagtgt 997

<210> 133  
 <211> 963  
 <212> DNA  
 <213> Homo sapiens

<400> 133  
 gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg 60  
 ctgaggtaca tctggatggg cagcccttc tgcgtgtga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaaacga aaggacctca ggtgacctt ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctccaa aacctggaga 360  
 ctgaggaatg gacaatgcc cagtcctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcctc 540  
 ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg 600  
 cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatcttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840  
 ggcagacatt ccattgttct gctgttctg ctgctgctgc tctgctgct gctgctattt 900  
 ttgttattat tattttctac gtctgttgtt gtaagaagaa aacatcagct gcagagggtc 960  
 cag 963

<210> 134  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

<400> 134  
 gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttctca 60  
 ctgaggtaca tctggatggg cagcccttc tgcgtgtga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaacaa gacatgggac agagagacca 180  
 gagacttgac agggaaacga aaggacctca ggtgacctt ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctccaa aacctggaga 360  
 ctgaggaatg gacaatgcc cagtcctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacactcta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcctc 540  
 ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg 600  
 cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatcttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctg 813

<210> 135  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

<400> 135  
 gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg 60

```

ctgaggtaca tctggatggt cagcccttc tgcgtgtga caggcagaaa tgcagggcaa 120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180
gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360
ctgaggaatg gacagtcccc cagtctcca gagctcagac cttggccatg aacgtcagga 420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480
gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga acagtgtccc 540
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg acatgcaggg 600
cttcagctt ctatccccgg aatatcaca tgacctggcg tcaggatggg gtatctttga 660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720
gggtggccac caggatttgc cgaggagagg agcagaggtt cacctgctac atggaacaca 780
gcgggaatca cagcactcac cctgtgcct ctg 813

```

<210> 136  
<211> 920  
<212> DNA  
<213> Homo sapiens

```

<400> 136
gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg 60
ctgaggtaca tctggatggt cagcccttc tgcgtgtga caggcagaaa tgcagggcaa 120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180
gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360
ctgaggaatg gacaatcccc cagtctcca gagctcagac cttggccatg aacgtcagga 420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480
gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgtccc 540
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccctg acatgcaggg 600
cttctggtt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720
gggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780
gcgggaatca cagcactcac cctgtgcct ctgggaaagt gctggtgctt cagagtcatt 840
ggcagacatt ccatgtttct gctgttctg ctggtgctg ctatctttgt tattattatt 900
ttctatgtcc gttgtgttaa 920

```

<210> 137  
<211> 813  
<212> DNA  
<213> Homo sapiens

```

<400> 137
gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttcttg 60
ctgaggtaca tctggatggt cagcccttc tgcgtatga caggcagaaa tgcagggcaa 120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180
gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360
ctgaggaatg gacagtcccc cagtctcca gagctcagac cttggccatg aacgtcagga 420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480
gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga acagtgtccc 540
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg acatgcaggg 600
cttcagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg gtatctttga 660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720
gggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780
gcgggaatca cagcactcac cctgtgcct ctg 813

```

<210> 138  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

<400> 138  
 gtcttcctta taacctcacg gtgctgtcct gggatggatc tgtgcagtc gggtttcttg 60  
 ctgaggtaca tctggatggg cagcccttcc tgcgtatga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaaacga aaggacctca ggtgacctt ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctgtgta gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacaatgccc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat cggcgtagt cctgaggaga acagtgtccc 540  
 ccatggtgaa tgtcaccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg 600  
 cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatcttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagagggt cacctgtac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgcct ctg 813

<210> 139  
 <211> 951  
 <212> DNA  
 <213> Homo sapiens

<400> 139  
 gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtc gggtttctcg 60  
 ctgaggtaca tctggatggg cagcccttcc tgcgtatga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaaacga aaggacctca ggtgacctt ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctgtgta gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacaatgccc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat cggcgtagt cctgaggaga acagtgtccc 540  
 ccatggtgaa tgtcaccgc agtgaggcct cagagggcaa cattaccgtg acatgcaggg 600  
 cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatcttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagagggt cacctgtac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgcct ctgggaaagt gctggtgctt cagagtcatt 840  
 ggcagacatt ccatgtttct gctgttctg ctgctgtgc tgctatttt gttattatta 900  
 tttctatgt ccgttgtgt aagaagaaaa catcagctgc agagggtcca g 951

<210> 140  
 <211> 948  
 <212> DNA  
 <213> Homo sapiens

<400> 140  
 gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtc gggtttcttg 60  
 ctgaggtaca tctggatggg cagcccttcc tgcgtatga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaaacga aaggacctca ggtgacctt ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctgtgta gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacagtgtccc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact 480

gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga acagtgcccc 540  
 ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg acatgcaggg 600  
 cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840  
 ggcagacatt ccatgtttct gctgttgctg ctgctgctg tatttttgtt attattattt 900  
 tctatgtccg ttgttgtaag aagaaaacat cagctgcaga ggggccag 948

&lt;210&gt; 141

&lt;211&gt; 920

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 141

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttcttg 60  
 ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacagtcccc cagtctcca gagctcagac cttggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga acagtgcccc 540  
 ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccctg acatgcaggg 600  
 cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagagggt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840  
 ggcagacatt ccatgtttct gctgttgctg ctgctgctg ctattttgtt tattattatt 900  
 ttctatgtcc gttgttgtaa 920

&lt;210&gt; 142

&lt;211&gt; 945

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 142

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttctcg 60  
 ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacaatgccc cagtctcca gagctcagac cttggccatg aacatcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcccc 540  
 ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccctg acatgcaggg 600  
 cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagagggt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840  
 ggcagacatt ccatgtttct gctgttgctg ctgctgctat tttgttatt attattttct 900  
 atgtccgttg ttgtaagaag aaaacatcag ctgcagaggg tccag 945

&lt;210&gt; 143

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 143

```

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg    60
ctgaggtaca tctggatggt cagcccttcc tgcgctgtga caggcagaaa tgcagggcaa    120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca    180
gggacttgac agggaaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga    240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca    300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga    360
ctgaggaatg gacaatgccc cagtcttcca gagctcagac cttggccatg aacgtcagga    420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact    480
gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcgcc    540
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg    600
cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga    660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaattggaacc taccagacct    720
gggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca    780
gcgggaatca cagcactcac gctgtgccct ctg                                813

```

&lt;210&gt; 144

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 144

```

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttcttg    60
ctgaggtaca tctggatggt cagcccttcc tgcgctatga caggcagaaa tgcagggcaa    120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca    180
gggacttgac agggaaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga    240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca    300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga    360
ctaaggaatg gacaatgccc cagtcttcca gagctcagac cttggccatg aacgtcagga    420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact    480
gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcgcc    540
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg    600
cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga    660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaattggaacc taccagacct    720
gggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca    780
gcgggaatca cagcactcac cctgtgccct ctg                                813

```

&lt;210&gt; 145

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 145

```

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttcttg    60
ctgaggtaca tctggatggt cagcccttcc tgcgctatga caggcagaaa tgcagggcaa    120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca    180
gggacttgac agggaaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga    240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca    300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga    360
ctgaggaatg gacaatgccc cagtcttcca gagctcagac cttggccatg aacgtcagga    420
atttcttgaa ggaagatgcc atgaagacca agacactcta tcacgctatg catgcagact    480
gcctgcagga actacggcga tatctaaaat ccagcgtagt cctgaggaga agagtgcgcc    540
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg    600
cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga    660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaattggaacc taccagacct    720
gggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca    780

```

gcgggaatca cagcactcac cctgtgccct ctg

813

&lt;210&gt; 146

&lt;211&gt; 948

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 146

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttcttg 60  
 ctgaggtaca tctggatggc cagcccttcc tgcgtatga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggagt 360  
 ctgaggaatg gacagtggcc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 attcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact 480  
 gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga acagtgtccc 540  
 ccatggtgaa tgtacccgc agcaggcct cagagggcaa catcacctg acatgcaggg 600  
 ctccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840  
 ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tattttgtt attattattt 900  
 tctatgtccg ttgttgtaag aagaaaacat cagctgcaga gggtcacg 948

&lt;210&gt; 147

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 147

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg 60  
 ctgaggtaca tctggatggc cagcccttcc tgcgtatga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacaatggcc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 attcttgaa ggaagatgcc gtgaagacca agacacacta tcacgtatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgtccc 540  
 ccatggtgaa tgtacccgc agcaggcct cagagggcaa catcacctg acatgcaggg 600  
 ctccagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagagggt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctg 813

&lt;210&gt; 148

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 148

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg 60  
 ctgaggtaca tctggatggc cagcccttcc tgcgtatga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300



ccaggagctc ccagcatttc tactacgatg gggagctctt cctctccaa aacctggaga 360  
 ctgaggaatg gacaatgccc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcgcc 540  
 ccatgggtgaa tgcacccgc agcgaggcct cagagggcaa catcacctg acatgcaggg 600  
 cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc cgaggagagg agcagaggtt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgcct ctg 813

<210> 149  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

<400> 149  
 gtcttcgtta taacctcag gtctgtccg gggatggatc tgtgcagta gggtttctcg 60  
 ctgaggtaca tctggatgtt cagcccttc tgcgtgtga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaaacga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctgttga gatccatgaa gacaacagca 300  
 ccaagagctc ccagcatttc tactacgatg gggagctctt cctctccaa aacctggaga 360  
 ctgaggaatg gacaatgccc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga acagtgcgcc 540  
 ccatgggtgaa tgcacccgc agcgaggcct cagagggcaa cattaccctg acatgcaggg 600  
 cttctggctt ctatccctgg aatatcacac tgacctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgcct ctg 813

<210> 150  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

<400> 150  
 gtcttcgtta taacctcag gtctgtcct gggatggatc tgtgcagta gggtttctcg 60  
 ctgaggtaca tctggatgtt cagcccttc tgcgtgtga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaaacga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240  
 aagaaggctt gcattccctc caggagatta gggctgttga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctccaa aacctggaga 360  
 ctgaggaatg gacaatgccc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcgcc 540  
 ccatgggtgaa tgcacccgc agcgaggcct cagagggcaa catcacctg acatgcaggg 600  
 cttccagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc cgaggagagg agcagaggtt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgcct ctg 813

<210> 151  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 151

```

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttctcg      60
ctgaggtaca tctggatggg cagcccttcc tgcgtgtga caggcagaaa tgcagggcaa      120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca      180
gggacttgac agggaacgga aaggacctca ggatgacct ggctcatatc aaggaccaga      240
aagaaggctt gcattccctc caggagatta gggctgtga gatccatgaa gacaacagca      300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga      360
ctgaggaatg gacaatgccc cagtctcca gagctcagac ctggccatg aacgtcagga      420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact      480
gcctgcagga actacggcga tatctaaaat cggcgtagt cctgaggaga acagtgtccc      540
ccatggtgaa tgcacccgc agcgaggcct cagagggcaa catcacctg acatgcaggg      600
cttcagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg gtatctttga      660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct      720
gggtggccac caggatttgc caaggagagg agcagagggt cacctgttac atggaacaca      780
gcgggaatca cagcactcac cctgtgcct ctg      813

```

&lt;210&gt; 152

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 152

```

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttctcg      60
ctgaggtaca tctggatggg cagcccttcc tgcgtgtga caggcagaaa tgcagggcaa      120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca      180
gggacttgac agggaacgga aaggacctca ggatgacct ggctcatatc aaggaccaga      240
aagaaggctt gcattccctc caggagatta gggctgtga gatccatgaa gacaacagca      300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga      360
ctgaggaatg gacaatgccc cagtctcca gagctcagac ctggccatg aacgtcagga      420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact      480
gcctgcagga actacggcga tatctaaaat cggcgtagt cctgaggaga acagtgtccc      540
ccatggtgaa tgcacccgc agcgaggcct cagagggcaa catcacctg acatgcaggg      600
cttcagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg ctatctttga      660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct      720
gggtggccac caggatttgc cgaggagagg agcagagggt cacctgttac atggaacaca      780
gcgggaatca cagcactcac cctgtgcct ctg      813

```

&lt;210&gt; 153

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 153

```

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttctcg      60
ctgaggtaca tctggatggg cagcccttcc tgcgtgtga caggcagaaa tgcagggcaa      120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca      180
gggacttgac agggaacgga aaggacctca ggatgacct ggctcatatc aaggaccaga      240
aagaaggctt gcattccctc caggagatta gggctgtga gatccatgaa gacaacagca      300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga      360
ctaaggaatg gacaatgccc cagtctcca gagctcagac ctggccatg aacgtcagga      420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact      480
gcctgcagga actacggcga tatctaaaat cggcgtagt cctgaggaga acagtgtccc      540
ccatggtgaa tgcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg      600
cttcaggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga      660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct      720
gggtggccac caggatttgc caaggagagg agcagagggt cacctgttac atggaacaca      780
gcgggaatca cagcactcac cctgtgcct ctg      813

```

<210> 154  
 <211> 960  
 <212> DNA  
 <213> Homo sapiens

<400> 154  
 gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg 60  
 ctgagggaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240  
 aagaaggett gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacaatgccc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgtccc 540  
 ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg 600  
 cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840  
 ggcagacatt ccatgtttct gctgttgctg ctgctgctgc tgcgtgctg gctatttttg 900  
 ttattattat tttctacgtc tgtgttgta agaagaaaac atcagctgca gaggtccag 960

<210> 155  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

<400> 155  
 gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttcttg 60  
 ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240  
 aagaaggett gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacaatgccc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480  
 gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgtccc 540  
 ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg acatgcaggg 600  
 cttcagctt ctatccccgg aatatcatac tgacctggcg tcaggatggg gtatctttga 660  
 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
 ggggtggccac taggatttgc caggagagg agcagaggtt cacctgctac atggaacaca 780  
 gcgggaatca cagcactcac cctgtgccct ctg 813

<210> 156  
 <211> 945  
 <212> DNA  
 <213> Homo sapiens

<400> 156  
 gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttctcg 60  
 ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa tgcagggcaa 120  
 agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180  
 gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240  
 aagaaggett gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300  
 ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360  
 ctgaggaatg gacaatgccc cagtctcca gagctcagac ctggccatg aacgtcagga 420  
 atttcttgaa ggaagatgcc atgaagacca agacacgcta tcacgctatg catgcagact 480

```

gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcgcc 540
ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg 600
cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720
gggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780
gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840
ggcagacatt ccatgtttct gctgttctg ctgctgctat tttgttatt attattttct 900
atgtctgttg ttgtaagaag aaaacatcag ctgcagaggg tccag 945

```

<210> 157  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

```

<400> 157
gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg 60
ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa tgcagggcaa 120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180
gggacttgac agggaaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240
aagaaggctt gcattccctc caggagatta gggctgtgta gatccatgaa gacaacagca 300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360
ctgaggaatg gacagtgcgc cagtctcca gagctcagac cttggccatg aacgtcagga 420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480
gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga agagtgcgcc 540
ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa catcacctg acatgcaggg 600
cttcagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg gtatctttga 660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720
gggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca 780
gcgggaatca cagcactcac cctgtgccct ctg 813

```

<210> 158  
 <211> 945  
 <212> DNA  
 <213> Homo sapiens

```

<400> 158
gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttctcg 60
ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa tgcagggcaa 120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca 180
gggacttgac agggaaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga 240
aagaaggctt gcattccctc caggagatta gggctgtgta gatccatgaa gacaacagca 300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga 360
ctgaggaatg gacaatgccc cagtctcca gagctcagac cttggccatg aacgtcagga 420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact 480
gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcgcc 540
ccatgggtgaa tgtcacccgc agtgaggcct cagagggcaa cattaccgtg acatgcaggg 600
cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga 660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720
gggtggccac caggatttgc gaaggagagg agcagaggtt cacctgctac atggaacaca 780
gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt 840
ggcagacatt ccatgtttct gctgttctg ctgctgctat tttgttatt attattttct 900
atgtccgttg ttgtaagaag aaaacatcag ctgcagaggg tccag 945

```

<210> 159  
 <211> 960  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 159

```

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg      60
ctgaggtaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa tgcagggcaa      120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca      180
gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc aaggaccaga      240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca      300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga      360
ctgaggaatg gacaatgccc cagtcctcca gagtcagac cttggccatg aacgtcagga      420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact      480
gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcgcc      540
ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg      600
cttctggctt ctgtccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga      660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct      720
gggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca      780
gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt      840
ggcagacatt ccatgtttct gctgttgctg ctgctgtgc tgctgtgct gctattttt      900
ttattattat ttctacgtc tgttggtgta agaagaaaac atcagctgca gagggtccag      960

```

&lt;210&gt; 160

&lt;211&gt; 951

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 160

```

gtcttcgtta taacctcacg gtgctgtccg gggatggatc tgtgcagtca gggtttctcg      60
ctgagggaca tctggatggg cagcccttcc tgcgctgtga caggcagaaa tgcagggcaa      120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca      180
gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc aaggaccaga      240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca      300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga      360
ctgaggaatg gacaatgccc cagtcctcca gagtcagac cttggccatg aacgtcagga      420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact      480
gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcgcc      540
ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa cattaccgtg acatgcaggg      600
cttctggctt ctatccctgg aatatcacac tgagctggcg tcaggatggg gtatctttga      660
gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct      720
gggtggccac caggatttgc caaggagagg agcagaggtt cacctgctac atggaacaca      780
gcgggaatca cagcactcac gctgtgccct ctgggaaagt gctggtgctt cagagtcatt      840
ggcagacatt ccatgtttct gctgttgctg ctgctgtgc tgctattttt gttattatta      900
tttctatgt ctgtgtgtgt aagaagaaa catcagctgc agagggtcca g          951

```

&lt;210&gt; 161

&lt;211&gt; 1064

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 161

```

gtcttcgtta taacctcacg gtgctgtcct gggatggatc tgtgcagtca gggtttcttg      60
ctgaggtaca tctggatggg cagcccttcc tgcgctatga caggcagaaa tgcagggcaa      120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca      180
gggacttgac agggaaacgga aaggacctca ggatgaccct ggctcatatc aaggaccaga      240
aagaaggctt gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca      300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacctggaga      360
ctgaggaatg gacagtgcgc cagtcctcca gagtcagac cttggccatg aacgtcagga      420
atttcttgaa ggaagatgcc atgaagacca agacacacta tcacgctatg catgcagact      480
gcctgcagga actacggcga tatctagaat ccggcgtagt cctgaggaga acagtgcgcc      540
ccatgggtgaa tgtcacccgc agcgaggcct cagagggcaa catcaccgtg acatgcaggg      600
ctccagctt ctatccccgg aatacatatc tgacctggcg tcaggatggg gtatctttga      660

```

```

gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc taccagacct    720
gggtggccac caggatttgc cgaggagagg agcagagggt cacctgctac atggaacaca    780
gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt    840
ggcagacatt ccatgtttct gctgttctg ctgctgctgc tattttgtt attattattt    900
tctatgtccg ttgttgaag aagaaaacat cagctgcaga tggccagag ctctgagcc    960
tgcaggctct ggatcaacac ccagttggga cgagtgaaca cagggatgcc acacagctcg   1020
gatttcagcc tctgatgtca gctcttgggt ccactggctc cact                               1064

```

&lt;210&gt; 162

&lt;211&gt; 1067

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 162

```

gtcttcgtta taacctcacg gtgtgtcct gggatggatc tgtgcagtca gggtttcttg    60
ctgaggtaca tctggatggg cagcccttcc tgcgtatga caggcagaaa tgcagggcaa    120
agccccaggg acagtgggca gaagatgtcc tgggaaataa gacatgggac agagagacca    180
gggacttgac agggaacgga aaggacctca ggatgacctt ggctcatatc aaggaccaga    240
aagaaggctt gcattccctc caggagatta ggtctgtga gatccatgaa gacaacagca    300
ccaggagctc ccagcatttc tactacgatg gggagctctt cctctcccaa aacgtggaga    360
ctgaggaatg gacagtggcc cagtctcca gagctcagac cttggccatg aacgtcagga    420
atctcttgaa ggaagatgcc atgaagacca agacacacta tcacgtatg catgcagact    480
gcctgcagga actacggcga tatctagaat ccagcgtagt cctgaggaga acagtggccc    540
ccatggtgaa tgtcacccgc agcgaggcct cagagggcaa catcaccgtg acatgcaggg    600
cttcagctt ctatccccgg aatatcacac tgacctggcg tcaggatggg gtatctttga    660
gccacgacac ccagcagtgg ggggatgtcc tgcctgatgg gaatggaacc taccagacct    720
gggtggccac caggatttgc caaggagagg agcagagggt cacctgctac atggaacaca    780
gcgggaatca cagcactcac cctgtgccct ctgggaaagt gctggtgctt cagagtcatt    840
ggcagacatt ccatgtttct gctgttctg ctgctgctgc tgctattttt gttattatta    900
ttttctatgt ccgttgtgtt aagaagaaaa catcagctgc agagggtcca gagctcgtga    960
gcctgcaggt cctggatcaa caccagttg ggatgagtga ccacaggat gccacacagc   1020
tcgatttca gcctctgatg tcagctcttg ggtccactgg ctccact                               1067

```